



**Government of Andhra Pradesh**

**COMMON SCHEDULE OF RATES  
AS PER  
A.P. REVISED STANDARD DATA  
FOR THE YEAR 2014-15  
(Effective from 1<sup>st</sup> June, 2014)**

**BOARD OF CHIEF ENGINEERS**

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**Office of the Engineer-in-Chief(I.W)  
I&cad Dept., Errummanzil,Hyderabad**

**Procs.No.ENC/IW/P&M/EE.3/DEE-10/AE/13305/Vol.37 dt:30.05.2014**

- Sub:** Schedule of Rates as per A.P.Revised Standard Data for the year 2014-15-Irrigation & CAD orks(Part-1),Road & Bridge Works(Part-2) and Drinking water supply schemes(Part-4)-approved-Printing& Communication of SoRs-Reg.
- Ref:** 1)G.O.Ms.No.49,I&CAD (PW:Reforms)Dept., dt:2.3.2009  
2)ENC(PH) Lr.No. 146/T1/SoR/2014-15/2014 dt. 31-05-2014  
3)Industrial Consumer Price Index points obtained from Commissioner,Labour Department  
4)Minutes of BOCEs meeting for Schedule of Rates held on 24.05.2014.

\* \* \* \* \*

The Government have approved A.P.Revised Standard Data vide ref 1<sup>st</sup> cited.The Schedule of Rates as per A.P.Revised Standard Data for the year 2014-15 is approved based on the following.

The Engineer-in-Chief, Public Health Department has furnished draft rates for Public Health works items and Public Health Materials vide ref 2<sup>nd</sup> cited.

The Engineer-in-Chief (PR) has furnished the draft rates for Roads & Bridge items for the year 2014-15 in lieu of the Engineer-in-Chief (R&B) Dept. as the R&B Department is following the MoRTH data in place of A.P. Revised Standard Data. The Engineer-in-Chief (PR) has yet to furnish corrected copy of Roads & Bridges item rates.

The Chief Engineer(Buildings),R&B Department has yet to furnish the Part-III of Common SoR i.e., Buildings

For Irrigation & CAD work items, the regional Superintending Engineers, Irrigation Circles of Hyderabad,Chitttoor & Dowlaiswaram in charge of Telangana, Rayalaseema and Andhra regions respectively have submitted the draft basic rates of materials. The Superintending Engineer, Mechanical Circle, Hyderabad has furnished draft rates of Mechanical and Workshop items. Accordingly, the draft rates for Irrigation & Command Area Development are prepared.

The labour wages are finalized based on market rates duly keeping in view of the minimum wages calculated from the index points obtained from the Commissioner, Labour Department vide ref 3<sup>rd</sup> cited for finalizing the Labour rates for SoR 2014-15.

Based on the proposals, the draft Schedule of Rates for the year 2014-15 were reviewed and finalized in the annual Board of Chief Engineers meeting held on [24.5.2014@3.30](#) P.M. in the BoCE Conference hall, Jalasoudha Building, Hyderabad.

The procedure for the adoption of Irrigation work items, lead & lift charges (Common to all departments) is incorporated in the Annexure-A of SoR.

The approved basic rates are applicable to the datas as per A.P.Revised Standard Data approved by the Government vide G.O.1<sup>st</sup> cited. The Government approval is necessary to adopt any other data (i.e) MoRT&H Data for adopting the Road & Bridge Works(Part-2).

The lead & lift charges are common to all Engineering Departments. The detailed calculations are incorporated in the Lead & lift chapter in the I&CAD Works(Part-I) of A.P.Revised Standard Data.

During the BoCE meeting held on 24-05-2014, it is observed that in some of the estimates, Lead Charges are being added directly to the material basic rates for arriving the finished item rate. In view of that, the BoCE has instructed to see that while arriving the finished item rate, the lead charges are to be added to the material basic rates only after deducting the provision of "Contractor's Profit and Overhead charges"

One hard copy & compact disc containing Schedule of Rates is here with communicated.

No other items other than the items communicated by this Office shall be introduced in the SoR.

The Heads of Department and Officers mentioned below are authorized to print the Schedule of Rates for the year 2014-15. The unauthorized printing & selling of the SoR is strictly prohibited. The Schedule of Rates for 2014-15 will be in force until the new SoR comes in to force.

Any discrepancies found (or) corrections required in SoR 2014-15 may be brought to the notice of undersigned for issuing corrections.

The revised rates will come into force from 1st June of 2014.

The receipt of the proceedings may be acknowledged.

**Encl: SoR 2014-15 containing Part-I(Irrigation & CAD works) and Part-IV(Public Health Items)**

Sd/-L.Narayan Reddy,30.5.2014,  
Engineer-in-Chief(I.W.)  
Chairman, BOCE(S.R)

**I)** Copy communicated to the Principal Secretary to Govt., I&CAD Dept., J-Block, A.P.Secretariat Buildings, Hyderabad.

**I)** Copy Communicated to the following Heads of Departments along with Enclosures for information.

1) Engineer-in-Chief (Admn & NH)., Roads & Buildings Department.

2) Engineer-in-Chief (P.H.), Public Health Department.

3) Engineer-in-Chief (P.R.), Panchayath Raj Department.

4) Engineer-in-Chief (RWS) R W S, Department.

5) Chief Engineer (Buildings), R&B Department.

6) Copy of C.D containing Schedule of Rates 2014-15 & Standard data, part-1 (Irrigation & CAD works) to all Engineers-in-Chief, Chief Engineers of Irrigation & CAD Department for favour of information.

**III)** Copy to the Superintending Engineer, Irrigation Circle, Irrigation & CAD Department, Red Hill, Hyderabad for necessary action.

Sd/-L.Narayan Reddy, 30.5.2014,  
Engineer-in-Chief(I.W.)  
Chairman, BOCE(S.R)

**Important – Read The following**

**ANNEXURE- A**

- 1) The SPIU(Irrigation), Centre for Good Governance (CGG), Hyderabad has developed software package linking the basic input data of Irrigation with approved data of Irrigation work items.
- 2) The lead and lift charges are common to all Engineering Departments. The detailed calculations are incorporated in the Lead &Lift charges chapter in the I&CAD works (Part-1) of A.P. Revised standard data.  
**The Leads for Steel and Cement shall be from the nearest market place to the project area**
- 3) Further, the CGG has also developed estimate preparation package to use in the preparation of estimates duly making provision for incorporation of applicable lead & lift for different materials, Area allowances for labour, Dewatering charges and VAT as additional.
- 4) For Gates & Hoist works, the excise duty on the fabrication of work (other than materials)shall be added as per the Government Orders issued from time to time while preparing the estimate.
- 5) The estimate sanctioning authority shall physically verify each and every Irrigation work item data incorporated in the estimate with basic input data before sanction of the estimate. **Any lapses or arithmetic errors arising in the sanction of data's /estimate due to adoption of the software package lies entirely on the concerned estimate sanctioning authority only.**
- 6) Any discrepancies / corrections required for improper basic input data appearing in the approved data's of Irrigation work items in the software package and hard copy of SoR & Standard data's (part-1) may be brought to the notice of undersigned for issuing corrections.

Sd/-L.Narayan Reddy,30.5.2014,  
Engineer-in-Chief(I.W.)  
Chairman, BOCE(S.R)

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# **IRRIGATION & CAD WORKS**



# **PREAMBLE**

*PREAMBLE*

**I.0 AREA ALLOWANCES:**

**A) CORPORATIONS & MUNICIPALITIES:**

- a) (i) 25% extra over the rates on labour component of works is allowed in all Municipal Corporation Limits of Andhra Pradesh except Greater Hyderabad, Greater Visakhapatnam and Vijayawada municipal corporations (up to a belt of 12 Kms. from Municipal Corporation limits) and other corporations as notified by the Government from time to time.
- (ii) 40% extra over the rates on labour component of works for Greater Hyderabad, Greater Visakhapatnam and Vijayawada Municipal Corporation (up to a belt of 12 Kms. from Municipal Corporation limits).
- b) Allow 20% extra over basic rates on labour component of works in all District Headquarters and the remaining Municipal limits (up to a belt of 12 Kms from Municipal limits).
- c) For works at Tirumala Hills in Chittoor District, 40% extra over the basic rates of labour component is allowed.
- d) For works at Horsely hills in Chittoor District, 30% extra over the basic rates of labour component is allowed.
- e) For works located inside Tirumala Temple, 20% extra over the basic rate of labour component specified for Tirumala Hills is allowed.
- f) For Works located inside T.T.D Temples of Sri Padmavathi Ammavari Temple, Tiruchanoor, Sri Govindaraja Swamy Temple at Tirupathi, Sri Kapleswara Swamy Temple, Kapilatheerthm, Tirupathi and Sri Kalyana Venkateswara Swamy Temple, Srinivasa Mangapuram , 20% extra over the basic rates of labour component for Tirupathi Municipal Corporation is allowed.

**B) JAIL COMPOUNDS:**

20% extra is allowed over labour rates for the work in the Jail compounds. Only equivalent number of Man Mazdoor shall be provided in the Jail premises and no women Mazdoor are allowed inside.

**C) INDUSTRIAL AREA:**

- a. 20% over basic rates on labour component works allowed for works situated within 10Kms belt of Industrial area of, Jeedimetla, Lingampally, Ibrahimpatnam, Tandur in Ranga Reddy District, Ibrahimpatnam, Vuyyuru, Jaggaihpeta in Krishna District, Macherla, Gurajala, Challapalli in Guntur District Garividi in Vijayanagaram District, Kothur in Mahabubnagar District, Patancheru, Ramachandrapur in Medak District, Bibinagar in Nalgonda District, Ramagundam and Godavarikhani in Karimnagar District, Renigunta in Chittoor District and Yerraguntla & Mangampet in Kadapa District, Manchiryal, Mandamarri, Bellampalli in Adilabad District, Sarpaka, Kothagudem, Paloncha, Manguguru, Singareni Collieries in Khammam District, Kamalapur, Bhoopalpally of Warangal District, Wadepally of Nalgonda District, Nagapally(Centenary Colony, Begumpet "X" roads), Takkelapally of Karimnagar District, Hindupur, Tadipatri, Anantapur, Guntakal, Rayalcheruvu, Yadiki of Anantapur District and

Adoni, Dhone, Cement Nagar, Nandyal, Kurnool, Yemmiganur & Bethamcherla of Kurnool District, Anakapally of Vishakhapatnam District.

**D) AGENCY / TRIBAL AREAS:**

- a) 25% extra is allowed for the works located within the interior Agency / Tribal limits, i.e. for the works located within & upto 16 KMs from any all weather route inside Agency / Tribal.
- b) 40% extra is allowed for the works located within the interior Agency / Tribal limits, i.e. for the works located beyond 16 KMs from any all weather route inside Agency / Tribal.

**NOTE:** 1. No extra percentage is permissible in respect of Forest produce such as Bamboo, Rellu grass and for all materials obtained from outside the Agency / Tribal.

2. The extra percentage under Agency / Tribal areas allowance may be allowed on the labour component and on the labour charges in the rates for conveyance of materials.

3. The extra percentage on cost of materials in Agency / Tribal areas can be allowed on the labour component only, if they are manufactured in the Agency / Tribal areas itself except Forest produce.

**E) GHAT ROADS:**

For Ghat Roads steeper than 1 in 20, the length of the road may be taken as 1.5 times the existing length of the road for the purpose of leads only for conveyance of materials based on the certificate for the Ghat Road given by the Superintending Engineer concerned.

**Foot Note:** Under compelling circumstances, the concerned Chief Engineer can adopt the equivalent length of road as 2 ½ times of actual length.

**Note below area allowances:**

*If more than one area allowance ( such as those ) for (1) Municipalities (2) Agency / Tribal areas (3) Industrial areas are applicable for a particular situation, only the maximum out of the allowable percentages is to be allowed.*

**2.0 EXCAVATION OF TRIAL TRENCHES, TRIAL PITS AND EXCAVATION IN RESTRICTED PLACES: -**

**I) EXCAVATION OF TRIAL TRENCHES, TRIAL PITS AND EXCAVATION IN RESTRICTED PLACES: -**

**A. TRIAL TRENCHES:**

- 1) Trial trenches of not more than 2 metres in width...25% extra

**B. TRIAL PITS:**

1) Up to 2 Metres depth	...	25% extra
2) 2 Metres to 4 Metres depth	...	50% extra
3) 4 Metres to 6 Metres depth	...	75% extra
4) 6 Metres to 8 Metres depth	...	100% extra
5) 8 Metres to 9 Metres depth	...	150% extra
6) More than 9 Metres depth	...	200% extra

**II) EXCAVATION IN RESTRICTED PLACES:-**

I) Foundation of Buildings	...	75% extra
II) For pipe lines where the depth is less than 1.5 times the width	...	75% extra
III) For pipe lines where the depth is 1.5 times or more than the width	...	120% extra
IV) Silt removal in restricted areas such as U. T's., Culverts and Syphons.	...	120% extra
V) Excavation of field channels	...	75% extra
VI) For narrow trenches not more than 2 meters in width and depth not less than twice the width and for excavation of road boundary drains, model sections of canals.	...	75% extra
VII) High berm cutting of not more than 150 mm average thickness and sectioning for roads	...	50% extra

**Note:** 1) The extra percentage is allowed over Common item for all earth works (COM-MWRK- Manual Works) for corresponding soil and Standard data items. It includes the charges for all lifts and initial lead but does not include dewatering charges if any in respect of all the items under (A) and (B) above.

2) The above extra percentages in respect of excavation in hard rock for restricted places are to be allowed for (2/3) rd of the cost and shall not to be allowed in respect of items involving blasting component which may be taken as 1/3 of the cost.

**3.0 SEIGNIORAGE CHARGES:**

**Note:**

The rates of the materials indicated in the SOR are exclusive of Seigniorage Charges. Appropriate Seigniorage Charges for relevant materials are to be added to the Unit rate of work item in the estimates as fixed by the Government in G.O.Ms.No.198 (Industries and Commerce Dept.) dt:13.08.2009. In case of revision, the revised rates as fixed by Mines and Geology Department have to be adopted.

# **LABOUR RATES**

**LABOUR RATES**

<b>Sl No.</b>	<b>CATEGORY OF WORKER</b>	<b>S. Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>
<b>I.</b>	<b>SKILLED CATEGORY:</b>	
1	Bar bender	450
2	Black smith / Tin smith / Rivetor	385
3	Blaster	440
4	Carpenter Cl- I	385
5	Electrician ( Licensed )	440
6	Fitter Cl- I	385
7	Floor Polisher / Tile Layer	385
8	Foreman	440
9	Gauge reader	370
10	Maistry / Work Inspector with Non-technical Qualification SSLC/SSC/HSC	370
11	Mason Cl- I / Brick layer Cl- I	385
12	Mechanic Cl- I	385
13	Operator Air compressor / DG set	385
14	Operator Batching plant	440
15	Operator Bus/Ambulance/ Lorry/ Tanker	440
16	Operator Concrete / Asphalt mixer	385
17	Operator Concrete / Asphalt paver	385
18	Operator Concrete pump / Placer/ ice plant	385
19	Operator Core drilling machine	440
20	Operator Crane/ Tower crane/ Cable way	440
21	Operator Drilling jumbo / Loco / Winch	385
22	Operator Grouting/ Guniting/ Shotcreting	385
23	Operator Jackhammer/Pneumatic tamper	385
24	Operator Pump / Ventilation fan	385
25	Operator Lathe/Drilling/Shearing machine	440
26	Operator Bending / Planing machine	385
27	Operator Road roller	385

Sl No.	CATEGORY OF WORKER	S. Rate for 2014-15
1	2	3
28	Operator Shovel / Scraper / Dozer	440
29	Operator Spillway / Sluice gate	385
30	Operator Crusher / Conveyor / Mucker	385
31	Operator Tipper / Dumper / Transit mixer	440
32	Operator Concrete vibrator	385
33	Operator Vibratory plain / pad foot roller	385
34	Operator Wagon drill / Drifter	440
35	Painter CI- I	440
36	Plumber / Pipe fitter	440
37	Sarang / Khalasi	385
38	Spun pipe moulder	385
39	Stone chiseller CI- I / Stone cutter CI- I	385
40	Struct. steel Fabricator / Marker / Erector	440
41	Welder / Gas Cutter	385
42	Welder (X-ray quality)	440
<b>II.</b>	<b>SEMI SKILLED CATEGORY:</b>	
1	Asphalt Sprayer / Boiler attendant	345
2	Bhisti	345
3	Boatman with boat	360
4	Carpenter CI- II / Erector shuttering	345
5	Cartman with double bullock cart	395
6	Cartman with single bullock cart	370
7	Chavali / Navagani	345
8	Crowbarman / Jumper man	345
9	Fitter CI- II	345
10	Gang man / Head / Survey mazdoor	345
11	Gardener / Trained mali	345
12	Air compressor / DG set	345
13	Helper Batching plant	345
14	Helper Blasting	345

Sl No.	CATEGORY OF WORKER	S. Rate for 2014-15
1	2	3
15	Helper Bus/ Ambulance/ Lorry/ Tanker	345
16	Helper Bending/Shearing/Planing machine	345
17	Helper Carpenter	345
18	Helper Concrete / Asphalt mixer	345
19	Helper Concrete / Asphalt paver	345
20	Helper Core drilling machine	345
21	Helper Crane/ Tower crane/ Cable way	345
22	Helper Drilling jumbo / Loco / Winch	345
23	Helper Fitter / Fabrication/Electrician	345
24	Helper Grouting/ Guniting/ Shotcreting	345
25	Helper Jack hammer / Pneumatic tamper	345
26	Helper Laboratory / Instrumentation	345
27	Helper Road roller	345
28	Helper Shovel / Scraper / Dozer	345
29	Helper Crusher / Conveyor / Mucker	345
30	Helper Tipper / Dumper/ Transit mixer	345
31	Helper Vibrator	345
32	Helper Vibratory plain/ pad foot roller	345
33	Helper Wagon drill/ Drifter	345
34	Lineman Electric / Telephone	345
35	Mason Cl- II / Brick layer Cl-II	345
36	Mechanic Cl- II	345
37	Painter Cl- II	345
38	Patkari / Neeraganti / Sowdy	345
39	Stone Chiseller Cl- II	345
40	Stone breaker / Hammer man	345
41	Valve man / Canal sluice operator	345
<b>III.</b>	<b>UN-SKILLED CATEGORY:</b>	
1	Cement / Asphalt handling mazdoor	295
2	Civic worker	295
3	<b>Man mazdoor</b>	295



Sl No.	CATEGORY OF WORKER	S. Rate for 2014-15
1	2	3
4	Woman mazdoor	295
5	Watchman	295
<b>IV. OTHER CATEGORY:</b>		
1	Care-taker / conductor / Lift Attender	360
2	Cook / Mess man	360
3	Dhobi	360
4	Diploma Engineer / Surveyor	550
5	Diver with headgear	440
6	Graduate / Laboratory Assistant	440
7	Graduate Engineer/ Geologist	735
8	Horticulture Assistant / Photographer	370
9	ITI certificate holder / Tracer / Printer	440
10	Literate mazdoor	345
11	Stenographer / Computer Operator	485
12	Telephone / Wireless Operator	430
13	Typist / Job Typist	430
14	CAD operator with Diploma in Engineering/General degree with CAD certificate	600
15	Jeep Driver	430
16	Data Processing Operator	600

**Note:** - 1)The wage should not be less than the minimum wages of schedule of employment, subject to out turn. 2) 25% extra over the corresponding labour rates in respect of the work to be done during night time subject to issue of certificate accordingly by the concerned estimate sanctioning authority for providing in the data and by concerned Executive Engineer in charge of the work for payment. The night time allowance is applicable only to the works done under Greater Hyderabad Municipal Corporation, Greater Visakhapatnam Municipal Corporation and Vijayawada Municipal Corporation limits only.

# **BASIC INPUT DATA FOR IRRIGATION WORK ITEMS**

**STATEMENT OF RATES FOR MATERIALS  
FOR THE YEAR : 2014-15  
GENERAL GUIDE LINES FOR REVISING RATES OF MATERIALS:**

- 1 Average of the prevailing market rates, ignoring freak rates, is the criteria for Fixing market rates for materials.
- 2 The rates for materials is inclusive of all taxes, duties and other local levies.
- 3 The rates for materials are **exclusive of** Seigniorage charges wherever applicable.
- 4 The rates for materials, except those for which lead charges are admissible as per the Statement of lead charges is for all leads.
5. The rates provided for useful rubble / stone chips from excavation shall be at dump yard.

Sl No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2014-15
1	2	3	4
1	Acetylene gas	cum	320.00
2	Asphalt 80/100 Grade	Kg	43.00
3	Binding wire	Kg	70.00
4	Burnt stone slab 10 cm thick	sqm	300.00
5	Cement 43 Gr/53 Gr <b>Note: As per Monthly rate fixed by Sub-Committee.</b>	tonne	4000.00 <b>(Rate for 5/2014)</b>
6	Chequered plate	Kg	60
7	Coarse aggregate 10-4.75 mm(excluding Seigniorage charges)	cum	875
8	Coarse aggregate 20-10 mm(excluding Seigniorage charges)	cum	1210
9	Coarse aggregate 40-20 mm(excluding Seigniorage charges)	cum	1145
10	Coarse aggregate 80-40 mm(excluding Seigniorage charges)	cum	635
	The aggregate rates mentioned above (from Sl.No.7 to Sl.No.10) are <b>exclusive of Seigniorage charges but</b> including blasting charges of Rs.70/cum and 25% machine crushing charges. However, if the metal is obtained from hand broken, the blasting and crushing charges shall be deducted. The aggregate shall be HB Stone of Granite, Dolomite, Dolerite and Trap. (Quartzite and Basalt with aggregate impact of less than 20)		
11	Coir brush	Each	45

**Part I-Basic Input data for Irrigation items – Common SoR 2014-15**

<b>Sl No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S. Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
12	Copper sheet 16 SWG	kg	695
13	Coursed rubble stone 30 x 30 x 45 cm(excluding Seigniorage charges)	Each	20
14	Coursed rubble stone 30 x 30 x 60 cm(excluding Seigniorage charges)	Each	23
15	Curing Compound	Ltr	130
16	D – cord	Rm	10
17	Delay - noiseless trunk	Each	21
18	Detonating fuse coil	Rm	11
19	Detonating shock tube / Cord relays	Rm	65
20	Detonator delay type	Each	23
21	Detonator electric	Each	13
22	Detonator ordinary	Each	9
23	Empty cement bag	Each	4.5
24	Explosive ANFO	kg	43
25	Explosive ANFO high strength booster	kg	73
26	Explosive small dia ( Kelvex-220 or equivalent)	kg	70
27	(a)Fine aggregate/ sand(un- screened) for Concrete & Filtering items) (excluding Seigniorage charges)	cum	462
	(b)Fineaggregate/Sand(unscreened)for filling(excluding Seigniorage charges)		342
28	Fine aggregate /Sand (Screened) for Mortar ,Plastering items and Sand blasting items(excluding Seigniorage charges)	cum	606
29	Geo-textile ( filter fabric ) 160 gsm	sqm	110
30	Geo-textile ( filter fabric ) 200 gsm	sqm	132
31	Geo-textile ( filter fabric ) 250 gsm	sqm	154
32	G I Pipe 100 mm dia B Class	Rm	735
33	G I Pipe 15 mm dia A class	Rm	110
34	G I pipe 25 mm dia A class	Rm	170
35	G I pipe 40 mm dia B class	Rm	290
36	G I pipe 50 mm dia A class	Rm	320

**Part I-Basic Input data for Irrigation items – Common SoR 2014-15**

<b>Sl No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S. Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
37	G I Pipe 80 mm dia B Class	Rm	490
38	G.I Bolts / Nuts and Washers	kg	106
39	G.I sheet ( plain )	tonne	66000
40	Hariyala turfing sods	sqm	28
41	Hectometer stone one line dressed	Each	240
42	Hemp yarn	kg	72
43	Honne wood planks	cum	54000
44	Hume pipe with collar 150 mm dia	Rm	330
45	Hume pipe with collar 300 mm dia	Rm	650
46	J- Bolts 30 cm long	Each	35
47	Jungle wood planks	cum	23000
48	Khandki stone 15 to 20 cm height	Each	11
49	Khandki stone 20 to 25 cm height	Each	13
50	Khandki stone 25 to 30 cm height	Each	16
51	Kilometer stone one line dressed	Each	450
52	LDPE sheet ( Geo membrane ) 500 micron thick	sqm	92
53	LDPE sheet ( Geo membrane ) 750 micron thick	sqm	130
54	LDPE sheet ( Geo membrane ) 1000 micron thick	sqm	180
55	M S Bolts / Nuts / Washers	kg	90
56	Murum(including loading charges <b>but excluding</b> Seigniorage charges )	cum	107
57	Oxalic acid	Ltr	76
58	Oxygen gas	cum	52
59	PVC sealing strip	Rm	44
60	PVC water stopper 310 mm wide	Rm	485
61	PVC pipe of 100 mm dia	Rm	175
62	Reinforcement steel (HYSD/TMT ) <b>Note: As per Monthly rate fixed by Sub-Committee</b>	tonne	<b>46,500(Rate for 5/2014)</b>
63	Resin bond Cement capsule	Each	65

**Part I-Basic Input data for Irrigation items – Common SoR 2014-15**

<b>Sl No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S. Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
64	Rough stone 20 x 20 x 75 cm ( Including Loading charges <b>but excluding</b> Seigniorage Charges)	Each	23
65	Shahabad stone slab (including loading charges <b>but excluding</b> Seigniorage charges)	sqm	229
66	Stone chips (at dump yard/Spoil)(including loading charges <b>but excluding</b> Seigniorage charges)	cum	175
67	Stone chips ( at quarry )(including loading charges <b>but excluding</b> Seigniorage charges)	cum	340
68	Structural steel angle / channel / beam / bars <b>Note: As per Monthly rate fixed by Sub-Committee</b>	tonne	45,000(Rate for 5/2014)
69	Structural steel plate / flats <b>Note: As per Monthly rate fixed by Sub-Committee</b>	tonne	46000(Rate for 5/2014)
70	Super Plasticizer (Conplast RP-264 or equivalent )	kg	80
71	Synthetic Enamel paint 1st quality	Ltr	240
72	Synthetic adhesive ( Resin + Hardener )	Kg	348
73	Tar felt joint filler board 12 mm thick	sqm	420
74	Tar felt joint filler board 20 mm thick	sqm	630
75	Through stones 20 x 20 x 30 to 45 cm (including loading charges <b>but excluding</b> Seigniorage charges)	Each	23
76	Through stones 25 x 25 x 45 to 60 cm long (including loading charges <b>but excluding</b> Seigniorage charges)	Each	39
77	Through stones 30 x 30 x 65 to 75 cm long (including loading charges <b>but excluding</b> Seigniorage charges)	Each	59
78	Un-coursed rubble stones ( at dump yard /Spoil) (including loading charges <b>but excluding</b> Seigniorage charges)	cum	155
79	Un-coursed rubble stones ( at quarry )( including loading charges <b>but excluding</b> Seigniorage charges)	cum	318
80	Water proofing compound	kg	75
81	Welding electrodes 4 mm dia	Each	11
82	Wire brush	Each	41

**Part I-Basic Input data for Irrigation items – Common SoR 2014-15**

<b>Sl No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S. Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
83	Wire mesh 20 gauge	sqm	212
84	Zinc chromate red oxide primer paint	Ltr	175
85	inorganic zinc silicate	Ltr	689
86	solvent less coal tar epoxy paint	Ltr	271
87	Zinc phosphate primer	Ltr	223
88	Allkyd based iron oxide paint	Ltr	196
89	a) Cost of hdpe (80mm dia)	Rm	620
	b) light black MS casing pipe 80mm dia (4mm thick)	Rm	670
90	welded steel wire fabric 100X100X5 mm size	Kg	155
91	Protective Mastic	Ltr	483
92	Solventless coal tar epoxy (brown)	Ltr	374

**ADDITIONAL MATERIALS FOR GATES & HOISTS  
FOR THE YEAR: 2014-15**

**GUIDE LINES:**

- a. For cast steel / Alloy steel / Forged steel / Bronze, aluminum alloy components the rates shall be inclusive of cost of basic metal for these components, casting / forging charges, machining charges and applicable excise duty on finished alloy component.
- b. For other materials the rates shall be prevailing market rates.

SI No.	DESCRIPTION OF MATERIAL	UNIT	S. Rate for 2014-15
1	2	3	4
1	Alloy steel ( IS : 1570-carbon steel ) shafts	Kg	210
2	Alloy steel ( IS : 1570-stainless steel ) pins	Kg	420
3	Bolt / Nut / Washer ( hot dipped galvanized )	Kg	130
4	Bolt / Nut / Washer ( stainless steel )	Kg	340
5	Bronze/Aluminum alloy(IS:305)bearings/bushes	Kg	912
6	Cast iron blocks	Kg	80
7	Cast steel drums / gears	Kg	220
8	Cast steel pinions	Kg	210
9	Cast steel wheels / pulleys / hubs / rollers / retainers	Kg	180
10	Chemical for de-greasing/ derusting/phosphate coating	Ltr	140
11	Coal tar epoxy paint	Ltr	215
12	Forged steel hooks / shackles	Kg	260
13	MS pipe 200 / 300 mm dia	Kg	175
14	MS pipe 32 mm dia	Rm	185
15	MS pipe 25 mm dia	Rm	150
16	Rubber bottom seal ( IS : 11855 )	Rm	759
17	Rubber side seal ( music note type Teflon claded ) ( IS : 11855 )	Rm	1518
18	Rubber side seal ( music note type uncladed ) ( IS : 11855 )	Rm	1155
19	Rubber side seal Z-type ( IS : 11855 )	Rm	1457



**Part I-Basic Input data for Irrigation items – Common SoR 2014-15**

<b>SI No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S. Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
20	Rubber corner seal ( Teflon claded ) ( IS : 11855 )	Rm	1485
21	Rubber corner seal ( un claded ) ( IS : 11855 )	Rm	1100
22	Stainless steel plates / flats	Kg	275
23	Welding electrode 4 mm dia x 450 mm ( radiographic low hydrogen )	Each	18
24	Welding electrode 4 mm dia x 450 mm ( stainless steel )	Each	26
25	Wire rope 6x37 constn ( IS : 2266 )	Kg	250
26	Zinc	Kg	170
27	Zinc rich ( zinc content : 90 % ) epoxy primer	Ltr	689

**MATERIALS FOR POWER SUPPLY WORKS FOR THE YEAR : 2014-15**

<b>SI No.</b>	<b>Description of Material</b>	<b>Unit</b>	<b>S. Rate for 2014-15</b>
1	Electric pole with fixtures	Each	For establishing Electrical Sub-Stations at the Project Sites wherever necessary, the rates approved by APTRANSCO may be followed.
2	Flood light 500 W	Each	
3	Flood light set	Each	
4	Flousscent tube light 40 W	Each	
5	Flousscent tube light set	Each	
6	HT / LT Circuit breaker with accessories	Set	
7	HT / LT Line conductor	1000 m	
8	PVC Armoured cable 10 sqmm and below	Rm	
9	PVC Armoured cable 16 sqmm	Rm	
10	PVC Armoured cable 25 sqmm	Rm	
11	PVC Armoured cable 70 sqmm	Rm	

**DETAILS OF CAPITAL COST OF MACHINERY / EQUIPMENT**  
**FOR THE YEAR: 2014-15**  
**GUIDE LINES FOR FIXING CAPITAL COST OF MACHINERY / EQUIPMENT:**

1 The Capital cost of machinery / equipment shall be for new machinery / equipment and shall be inclusive of all taxes, duties, other levies.

2 The cost of transport vehicles / equipment shall be exclusive of cost of tyres and tubes.

3 The cost of drill rods / drill bits / air hose / water hose / road tax / insurance charges and other consumable accessories shall not be included in the capital cost.

4 In cases, where the current capital cost of machinery / equipment could not be collected through enquiries, the capital cost considered for previous year may be updated on the basis of average percentage increase / decrease in the index for machinery published in the R.B.I Bulletin.

Sl No:	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2014-15
1	2	3	4
1	Agitator car / Transit mixer 2 cum ( excluding tyres )	Each	21,50,000
	tyres and tubes 6 sets		86,000
2	Air compressor 5 cmm electric	Each	7,10,000
3	Air compressor 7 cmm diesel	Each	9,50,000
4	Air compressor 7 cmm electric	Each	8,65,000
5	Air compressor 8.5 cmm diesel	Each	10,85,000
6	Air compressor 8.5 cmm electric	Each	11,20,000
7	Air compressor 15 cmm electric	Each	13,70,000
8	Angle Dozer 90 hp	Each	54,75,000
9	Batching plant 0.5 cum with accessories	Each	12,00,000
10	Batching plant 2 x 1.00 cum with accessories	Each	42,45,000
11	Batching plant 2 x 1.50 cum with accessories	Each	54,25,000
12	Bending machine	Each	5,30,000
13	Clamp shell and hoisting ropes	Each	30,000
14	Concrete bucket 1.5 cum	Each	56,000
15	Concrete hand mixer 45/30 ltr	Each	15,500
16	Concrete mixer 300/200 ltr(diesel)	Each	1,50,000
17	Concrete mixer 300/200 ltr ( electric )	Each	1,45,000
18	Concrete mixer 600/400 ltr(diesel)	Each	2,60,000
19	Concrete mixer 600/400 ltr ( electric )	Each	2,55,000

**Part I-Basic Input data for Irrigation items – Common SoR 2014-15**

<b>Sl No:</b>	<b>DESCRIPTION OF MACHINERY / EQUIPMENT</b>	<b>UNIT</b>	<b>S. Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
20	Concrete paver 100 Sqm / hr	Each	23,61,000
21	Concrete placer pump / hour	Hour	120.80
22	Convey mucker ( excluding tyres )	Each	38,55,000
	tyres and tubes 6 sets		86,000
23	Core drilling machine	Each	11,00,000
24	Diesel generating set 30 KVA	Each	4,95,000
25	Diesel generating set 50 KVA	Each	6,40,000
26	Diesel Loco 45 hp	Each	21,20,000
27	Dewatering pump 5 hp diesel	Each	40,000
28	Dewatering pump 5 hp electric	Each	24,500
29	Dewatering pump 10 hp diesel	Each	60,000
30	Dewatering pump 10 hp electric	Each	55,000
31	Dewatering pump 20 hp diesel	Each	1,90,000
32	Dewatering pump 20 hp electric	Each	1,00,000
33	Drifter	Each	10,58,000
34	Drilling jumbo ( excluding tyres )	Each	13,02,000
	tyres and tubes 6 sets		86,000
35	Dumper 4.5 cum ( excluding tyres )	Each	14,50,000
	tyres and tubes 6 sets		86,000
36	Geophysical Ele.resistivity meter	Each	4,75,000
37	Grouting pump	Each	1,02,000
38	Guniting / sand blasting equipment	Each	2,80,000
39	Ice plant with accessories 30 t / day	Each	22,80,000
40	Jack hammer	Each	65,000
41	Needle vibrator 40 mm petrol	Each	20,000
42	Needle vibrator 40 mm electric	Each	21,000
43	Needle vibrator 60 mm petrol	Each	21,500
44	Needle vibrator 60 mm electric	Each	25,500
45	Planing machine 4 m stroke	Each	7,80,000

**Part I-Basic Input data for Irrigation items – Common SoR 2014-15**

<b>Sl No:</b>	<b>DESCRIPTION OF MACHINERY / EQUIPMENT</b>	<b>UNIT</b>	<b>S. Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
46	Plate shearing machine up to 12 mm	Each	4,25,000
47	Pneumatic placer 0.5 cum	Each	5,80,000
48	Pneumatic tamper	Each	85,000
49	Pug cutting machine	Each	16,000
50	Pusher leg	Each	52,000
51	Road roller diesel 10 t	Each	8,50,000
52	Shovel 0.50 cum 75 hp	Each	37,50,000
53	Shovel 0.85 cum 110 hp	Each	63,80,000
54	Stationery derrick crane 5 t	Each	6,53,000
55	Tipper 5 cum ( excluding tyres )	Each	16,25,000
	tyres and tubes 6 sets		86,000
56	Tipping tub 1.5 cum	Each	2,40,000
57	Tower crane 5 tonne	Each	74,75,000
58	Transformer 250 KVA	Each	4,25,000
59	Truck 10 t ( excluding tyres )	Each	14,75,000
	tyres and tubes 6 sets		86,000
60	Truck mounted derrick crane 5 t ( excluding tyres )	Each	19,60,000
	tyres and tubes 6 sets		86,000
61	Upright drilling machine	Each	56,000
62	Ventilation fan 20 hp	Each	2,60,000
63	Vibratory pad foot roller 8 t	Each	29,50,000
64	Wagon drill	Each	6,50,000
65	Water tanker 8000 ltr (excluding tyres)	Each	14,22,000
	tyres and tubes 6 sets		86,000
66	Welding set	Each	48,000
67	Winch 35 hp electric	Each	3,75,000
68	Hydraulic Truck Crane 30T	Each	1,44,84,250
	tyres and tubes 6 sets		1,85,220
69	Hydraulic Truck Crane 16T	Each	1,03,90,875

**Part I-Basic Input data for Irrigation items – Common SoR 2014-15**

<b>SI No:</b>	<b>DESCRIPTION OF MACHINERY / EQUIPMENT</b>	<b>UNIT</b>	<b>S. Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
	tyres and tubes 6 sets		1,85,220
70	Heavy Duty Airless Spray Painting Equipment	Each	4,87,770

**ACCESSORIES TO MACHINERY / EQUIPMENT FOR THE YEAR : 2014-15**

<b>SI No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
1	Casing shoe bit	Each	10,500
2	Diamond core bit BX size	Each	10,600
3	Diamond core bit NX size	Each	12,720
4	Double tube core barrel	Each	13,568
5	Extension drill rod with coupling sleeve	Rm	2120
6	Jack hammer drill rod 1.5 m	Each	4028
7	Jack hammer drill rod 2.5 m	Each	6254
8	Nozzle for Guniting / sand blasting gun	Each	700
9	Paving Cylinder	Each	28,080
10	Rails 30R ( 30 kg / m )	tonne	51,500
11	Reamer shell	Each	5150
12	T.C. Cross bit 50 mm dia	Each	5000
13	T.C. Cross bit 75 mm dia	Each	10,000
14	T.C. Cross bit 100 mm dia	Each	12,000
15	Tyres and Tubes for truck	Set	18,000
16	Wire rope 16 mm dia	Rm	265
17	Excavation of drain with Excavator	cum	35

**AGGREGATE CRUSHING & PROCESSING PLANT**

Sl No.	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2014-15
1	2	3	4
1	Jaw crusher 900 x 500 mm ( 120 tph ) with 50 hp motor	Each	These items are no where being used in the Standard Data. Hence this may be deleted from SoR
2	Jaw crusher 500 x 300 mm ( 60 tph ) with 30 hp motor	Each	
3	Jaw crusher 400 x 225 mm ( 10 tph ) with 25 hp motor	Each	
4	Jaw plates 900 x 500 mm ( serreted )	Set	
5	Jaw plates 500 x 300 mm ( serreted )	Set	
6	Jaw plates 400 x 225 mm ( serreted )	Set	
7	Nylon Conveyor belt 3 ply 600 mm width	Rm	
8	Nylon Conveyor belt 3 ply 1000 mm width	Rm	

**OTHER COSTS ON MATERIAL / MACHINERY / EQUIPMENT FOR THE YEAR : 2014-15**

- 1 The rate provided for ' SUNDRIES' (Lump sum provision for unquantified inputs in the data rates) shall be updated on the basis of general percentage increase / decrease in the market rates or on the basis of R.B.I ' All Commodity' index.
- 2 The rate for structural steel fabrication shall include cost of all materials (except structural steel), machinery, labour and one coat of primer painting.
- 3 Demand charges and electric power charges shall be as per prevailing APCPDCL tariff.
- 4 Rate of interest on capital cost shall be as approved by Govt or other competent authority.

Sl No.	DESCRIPTION OF MATERIAL	UNIT	S Rate for 2014-15
1	2	3	4
1	Air hose 25 mm dia	Rm	175
2	Air hose 50 mm dia	Rm	298
3	Demand charges (HT-I : General-11 KVA category) on power supply	KVA / month	350
4	Diesel	Ltr	62
5	<b>Electric power (HT-VIII Category) including tax (1.5 times of the Tariff of HT-I(A): General-11 KVA category)</b>	Kwhr	8.5
6	Excise duty on Gates / Hoist supplies	%	0%
7	Insurance charges on machinery	% / annum	1%
8	Interest on capital cost	% / annum	11.00%

**Part I-Basic Input data for Irrigation items – Common SoR 2014-15**

<b>Sl No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
9	Lubricants	Ltr	275
10	Petrol	Ltr	78
11	Rivets	Kg	100
12	Road tax on transport vehicles	Rs./annum	18,132
13	Shalimastic sealing compound	Kg	94
14	Shutter oil	Ltr	78
15	Structural steel fabrication	Kg	24
16	Sundries ( Lump sum for un quantified inputs )	LS	41
17	Water hose ( pressure ) 20 mm dia	Rm	219
18	Steel wedges	LS	16
19	Elbows / Nipple / Plugs etc.,	LS	17
20	Soldering materials	LS	17
21	Steam circulation arrangement	LS	17
22	Fuel charges ( gas for heating )	LS	17
23	Vulcanizing materials	LS	17
24	Other accessories / controls / junctions	LS	deleted
25	Miscellaneous fittings / switches etc	LS	deleted
26	Anchors / supports for cables / lights	LS	deleted
27	Civil works for foundations / pedestals / duct etc	LS	deleted
28	Gas cutting set ( 2 No's 15 m hose and nozzle unit )	Each	14,203
29	Grease	Kg	260
30	Welding holder set ( cable / holder / gloves / mask etc )	Each	7350
31	Use rate of ropes	LS	150

**MATERIALS FOR GATES AND HOISTS**  
**FOR THE YEAR : 2013-14**

<b>SI No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S Rate for 2014-15</b>
1	Worm reducers	Each	224400
2	Electric motor 20 hp(Double Shaft)	Each	121000
3	Electric motor 17.5 hp(Double Shaft)	Each	85,800
4	Electric motor 12.5 hp(Double Shaft)	Each	72,600
5	Electric motor 5 hp(Double Shaft)	Each	33,000
6	Electric motor 3 hp (Double Shaft)	Each	23,100
7	Electric motor 2 hp (Double Shaft)	Each	12100
8	Floating shaft 300 mm dia	Kg	180
9	Manual operating system	Each	28,820
10	Gate position indicator	Each	195800
11	Ele-magnetic brake	Each	35,200
12	Electric cable / switch / control panel etc	LS	50,380
13	Wire rope sockets	Each	4,620



**Materials other than covered under irrigation  
For the year 2014-15  
GENERAL GUIDE LINES FOR REVISING RATES OF MATERIALS:**

- 1 Average of the prevailing market rates, ignoring freak rates, is the criteria for Fixing market rates for materials.
- 2 The rates for materials is inclusive of all taxes, duties and other local levies.
- 3 The rates for materials are **exclusive** of Seigniorage charges wherever applicable.
- 4 The rates for materials, except those for which lead charges are admissible as per the Statement of lead charges is for all leads.

Sl. No.	Description	Unit	S. Rate for 2014-15
1	2	3	4
M-002	Quarried stone 150 - 200 mm size for Hand Broken <b>(Excluding Seigniorage charges)</b>	Cum	147
M-003	Boulder with minimum size of 300 mm for Pitching <b>(Excluding Seigniorage charges)</b>	Cum	164
M-004	Coarse sand for filling <b>(Excluding Seigniorage charges)</b>	Cum	Rate as per item no.27(b) of material of I&CAD
M-005	Coarse sand for mortar <b>(Excluding Seigniorage charges)</b>	Cum	Rate as per item no.27(a) of material of I&CAD
M-006	Fine Sand <b>(Excluding Seigniorage charges)</b>	Cum	Rate as per item no.28 of material of I&CAD
M-007	Murum <b>(Excluding Seigniorage charges)</b>	Cum	Rate as per item no.56 of Material rates of I&CAD.
M-008	Gravel/Quarry spall <b>(Excluding Seigniorage Charges)</b>	Cum	103
M-009	Granular Material or hard murum for GSB works	Cum	Deleted
M-010	Granular Material or hard murum for GSB works <b>(Excluding Seigniorage charges)</b>	Cum	92
M-011	Fly ash conforming to IS: 3812 ( Part II & I)	Cum	72
	For item No.M-012 to M-055 the note shall be as follows 1) The rates mentioned are <b>exclusive</b> of Seigniorage charges <b>but inclusive</b> of blasting charges of Rs.70/cum and 25% machine crushing charges. However, if the metal is obtained by hand broken, machine crushing charges shall be deducted. 2) If the material is obtained by hand broken from surface boulders/canal spoil, the blasting and crushing charges shall be deducted. 3)The material shall be HB Stone of Granite, Dolomite, Dolerite and Trap.(Quartzite and Basalt with aggregate impact of less than 20)		

**Part I - Materials not covered under Irrigation basic data– Common SoR 2014-15**

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>S. Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
M-012	Filter media/Filter Material as per Table 300-3 (MoRT&H Specification) <b>(excluding Seinorage Charges)</b>	Cum	345
M-013	Close graded Granular sub-base Material 53 mm to 9.5 mm <b>(excluding Seinorage Charges)</b>	Cum	667
M-014	Close graded Granular sub-base Material 37.5 mm to 9.5 mm <b>(excluding Seinorage Charges)</b>	Cum	685
M-015	Close graded Granular sub-base Material 26.5 mm to 9.5 mm <b>(excluding Seinorage Charges)</b>	Cum	711
M-016	Close graded Granular sub-base Material 9.5 mm to 4.75 mm <b>(excluding Seinorage Charges)</b>	Cum	592
M-017	Close graded Granular sub-base Material 9.5 mm to 2.36 mm <b>(excluding Seinorage Charges)</b>	Cum	582
M-018	Close graded Granular sub-base Material 4.75mm to 2.36 mm <b>(excluding Seinorage Charges)</b>	Cum	510
M-019	Close graded Granular sub-base Material 4.75mm to 75 micron mm <b>(excluding Seinorage Charges)</b>	cum	489
M-020	Close graded Granular sub-base Material 2.36 mm <b>(excluding Seinorage Charges)</b>	Cum	489
M-021	Stone crusher dust finer than 3mm with not more than 10% passing 0.075 sieve. <b>(excluding Seinorage Charges)</b>	Cum	357
M-022	Coarse graded Granular sub-base Material 2.36 mm & below <b>(excluding Seinorage Charges)</b>	Cum	438
M-023	Coarse graded Granular sub-base Material 4.75mm to 75 micron mm <b>(excluding Seinorage Charges)</b>	cum	474
M-024	Coarse graded Granular sub-base Material 4.75 mm to 2.36 mm <b>(excluding Seinorage Charges)</b>	Cum	474
M-025	Coarse graded Granular sub-base Material 9.5 mm to 4.75 mm <b>(excluding Seinorage Charges)</b>	Cum	561
M-026	Coarse graded Granular sub-base Material 26.5 mm to 4.75 mm <b>(excluding Seinorage Charges)</b>	Cum	619
M-027	Coarse graded Granular sub-base Material 26.5 mm to 9.5 mm <b>(excluding Seinorage Charges)</b>	Cum	620
M-028	Coarse graded Granular sub-base Material 37.5 mm to 9.5 mm <b>(excluding Seinorage Charges)</b>	Cum	685
M-029	Coarse graded Granular sub-base Material 53 mm to 26 .5mm <b>(excluding Seinorage Charges)</b>	Cum	850
M-030	Aggregates below 5.6 mm <b>(excluding Seinorage Charges)</b>	Cum	557
M-031	Aggregates 22.4 mm to 2.36 mm <b>(excluding Seinorage Charges)</b>	Cum	914
M-032	Aggregates 22.4 mm to 5.6 mm <b>(excluding Seinorage Charges)</b>	Cum	1040
M-033	Aggregates 45 mm to 2.8 mm <b>(excluding Seinorage Charges)</b>	Cum	667

**Part I - Materials not covered under Irrigation basic data– Common SoR 2014-15**

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>S. Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
M-034	Aggregates 45 mm to 22.4 mm ( <b>excluding Seiniorage Charges</b> )	Cum	Rate as per item no.9 of Material rates of I&CAD.
M-035	Aggregates 53 mm to 2.8 mm ( <b>excluding Seiniorage Charges</b> )	Cum	914
M-036	Aggregates 53 mm to 22.4 mm ( <b>excluding Seiniorage Charges</b> )	Cum	872
M-037	Aggregates 63 mm to 2.8 mm ( <b>excluding Seiniorage Charges</b> )	Cum	714
M-038	Aggregates 63 mm to 45 mm ( <b>excluding Seiniorage Charges</b> )	Cum	662
M-039	Aggregates 90 mm to 45 mm ( <b>excluding Seiniorage Charges</b> )	Cum	Rate as per item no.10 of Material rates of I&CAD.
M-040	Aggregates 10 mm to 5 mm ( <b>excluding Seiniorage Charges</b> )	Cum	Rate as per item no.7 of Material rates of I&CAD.
M-041	Aggregates 11.2 mm to 0.09 mm ( <b>excluding Seiniorage Charges</b> )	Cum	704
M-042	Aggregates 13.2 mm to 0.09 mm( <b>excluding Seiniorage Charges</b> )	Cum	798
M-043	Aggregates 13.2 mm to 5.6 mm ( <b>excluding Seiniorage Charges</b> )	Cum	919
M-044	Aggregates 13.2 mm to 10 mm( <b>excluding Seiniorage Charges</b> )	Cum	1029
M-045	Aggregates 20 mm to 10 mm ( <b>excluding Seiniorage Charges</b> )	Cum	Rate as per item no.8 of Material rates of I&CAD.
M-046	Aggregates 25 mm to 10 mm ( <b>excluding Seiniorage Charges</b> )	Cum	1129
M-047	Aggregates 19 mm to 6 mm ( <b>excluding Seiniorage Charges</b> )	Cum	1040
M-048	Aggregates 37.5 mm to 19 mm( <b>excluding Seiniorage Charges</b> )	Cum	1103
M-049	Aggregates 37.5 mm to 25 mm( <b>excluding Seiniorage Charges</b> )	Cum	1145
M-050	Aggregates 6 mm nominal size( <b>excluding Seiniorage Charges</b> )	Cum	735
M-051	Aggregates 10 mm nominal size( <b>excluding Seiniorage Charges</b> )	Cum	935
M-052	Aggregates 13.2/12.5 mm nominal size( <b>excluding Seiniorage Charges</b> )	Cum	1097
M-053	Aggregates 20 mm nominal size( <b>excluding Seiniorage Charges</b> )	Cum	1365
M-054	Aggregates 25 mm nominal size( <b>excluding Seiniorage Charges</b> )	Cum	1313

**Part I - Materials not covered under Irrigation basic data– Common SoR 2014-15**

Sl. No.	Description	Unit	S. Rate for 2014-15
1	2	3	4
M-055	Aggregates 40 mm nominal size( <b>excluding Seiniorage Charges</b> )	Cum	845
M-056	AC pipe 100 mm dia	Metre	Rate as per PH item
M-057	Acrylic polymer bonding coat	Litre	474
M-058	Aluminum Paint	Litre	330
M-059	Aluminum alloy plate 2mm Thick	Sqm	381
M-060	Aluminum alloy/Galvanized steel	Tone	70,931
M-061	Aluminum sheeting fixed with encapsulated lens type reflective sheeting including 2% towards lettering, cost of angle iron, cost of drilling holes, nuts, bolts etc. and signs as applicable	Sqm	968
M-062	Aluminum studs 100 x 100 mm fitted with lens reflectors	No's	As per local market rate
M-063	Barbed wire	Kg	80
M-064	Bearing (Cost of parts)	No's	570
M-065	Bearing (Cast steel rocker bearing assembly of 250 tonne )	No's	785
M-066	Bearing (Elastomeric bearing assembly consisting of 7 internal layers of elastomer bonded to 6 nos. internal reinforcing steel laminates by the process of vulcanization,)	Cm <sup>3</sup>	As per Market Competitive rates.
M-067	Bearing (Forged steel roller bearing of 250 tonne)	No's	
M-068	Bearing (Pot type bearing assembly consisting of a metal piston supported by a disc, PTFE pads providing sliding surfaces against stainless steel mating together with cast steel assemblies/fabricated structural steel assemblies duly painted with all components	No's	
M-069	Bearing (PTFE sliding plate bearing assembly of 80 tonnes )	No's	
M-070	Bearing (Supply of sliding plate bearing of 80 tonne)	No's	
M-071	Bentonite	Kg	7.5
M-072	Binding wire	Kg	Rate as per item no.3 of Material rates of I&CAD.
M-073	Bitumen ( Cationic Emulsion )	Tone	As per rates fixed by R&B Dept based on refinery rates
M-074	Bitumen (60-70 grade)(Excluding taxes)	Tone	
M-075	Bitumen (80-100 grade ) (Excluding taxes)	Tone	

**Part I - Materials not covered under Irrigation basic data– Common SoR 2014-15**

Sl. No.	Description	Unit	S. Rate for 2014-15
1	2	3	4
M-076	Bitumen (Cutback )	Tone	As per rates fixed by R&B Dept based on refinery rates
M-077	Bitumen (emulsion)(Excluding taxes)	Tone	
M-078	Bitumen (modified graded)	Tone	
M-079	Brick	Each	As per Building SSR
M-080	C.I. shoes for the pile	Kg	54
M-081	Cement	Tone	Rate as per item no.5 of Material rates of I&CAD.
M-082	Cold twisted bars (HYSD/TMT Bars)	Tone	Rate as per item no.62 of Material rates of I&CAD
M-083	Collar for joints 300 mm dia	No's	165
M-084	Compressible Fibre Board(20mm thick)	Sqm	541
M-085	Connectors/ Staples	Each	82
M-086	Copper Plate(12m long x 250mmwide)	Kg	536
M-087	Corrosion resistant Structural steel	Tone	59,225
M-088	Corrugated sheet, 3 mm thick, "Tie" beam section railing	Kg	206
M-089	Credit for excavated rock found suitable for use	Cum	194
M-090	Curing compound	Liter	130
M-091	Delineators from ISI certified firm as per the standard drawing given in IRC - 79	Each	As per local competitive quotations
M-092	Earth Cost or compensation for earth taken from private land( <b>Excluding Seigniorage Charges</b> )	Cum	40
M-093	Elastomeric slab seal expansion joint assembly manufactured by using chloroprene, elastomer for elastomeric slab unit conforming to clause 915.1 of IRC: 83 (part II),	Metre	As per local competitive quotations
M-094	Electric Detonators @ 1 detonator for 1/2 gelatin stick of 125 gms each	100 no's	Rate as per item No. 21 of I&CAD
M-095	Epoxy compound with accessories for preparing epoxy mortar	Kg	361
M-096	Epoxy mortar	Kg	118
M-097	Epoxy primer	Kg	613
M-098	Epoxy resin-hardner mix for prime coat	Kg	633
M-099	Flag of red color cloth 600 x 600 mm	Each	25

**Part I - Materials not covered under Irrigation basic data– Common SoR 2014-15**

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>S. Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
M-100	Flowering Plants	Each	40
M-101	Galvanized MS flat clamp	No's	195
M-102	Galvanized steel wire crates of mesh size 100 mm x 100 mm woven with 4mm dia. GI wire in rolls of required size.	Sqm	180
M-103	Galvanized structural steel plate 200 mm wide, 6 mm thick, 24 m long	Kg	932
M-104	Gelatin 80%	Kg	73
M-105	Geo grids	Sqm	As per local competitive quotations
M-106	(a)Geo membrane 500 micron thick	Sqm	Rate as per item No. 52 of I&CAD
	(b) Geo membrane 750 micron thick	Sqm	Rate as per item No. 53 of I&CAD
	(c) Geo membrane 1000 micron thick	Sqm	Rate as per item No. 54 of I&CAD
M-107	Geo nets	Sqm	As per local competitive quotations
M-108	(a)Geo textile 160 gsm	Sqm	Rate as per item No. 29 of I&CAD
	(b) Geo textile 200 gsm	Sqm	Rate as per item No. 30 of I&CAD
	(c) Geo textile 250 gsm	Sqm	Rate as per item No. 31 of I&CAD
M-109	Geo textile filter fabric	Sqm	As per local competitive quotations
M-110	GI bolt 10 mm Dia	No's	23
M-111	Grouting pump with agitator	Hour	Rate covered in hire charges of machinery of Irrigation items
M-112	Grass (Doob)	Kg	6
M-113	Grass (Fine)	Kg	8
M-114	HDPE pipes 75mm dia	Metre	Rate as per PH items
M-115	HDPE pipes 90mm dia	Metre	
M-116	Hedge plants	Each	Rate as per local competitive quotations
M-117	Helical pipes 600mm diameter	Metre	
M-118	Hot applied thermoplastic compound	Litre	
M-119	HTS strand	Tone	

**Part I - Materials not covered under Irrigation basic data– Common SoR 2014-15**

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<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>S. Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
M-120	Joint Sealant Compound	Kg	Rate as per local competitive
M-121	Jute netting, open weave, 2.5 cm square opening for seeding and Mulching	Sqm	90
M-122	LDO for steam curing	Litre	65
M-123	M.S. Clamps	Kg	Deleted
M-124	M.S. Clamps	Kg	Rate as per local competitive quotations
M-125	M.S. shoes @ 35 Kg per pile of 15 m	Kg	Rate as per local competitive quotations
M-126	Mild Steel bars	Tone	46,865
M-127	Modular strip/box seal expansion joint including anchorage catering to a horizontal movement beyond 70 mm and up to 140mm assembly comprising of edge beams, central beam, 2 modules chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorized representative	Metre	Rate as per local competitive quotations
M-128	Modular strip/box seal expansion joint catering to a horizontal movement beyond 140mm and up to 210mm box/box seal joint assembly containing 3 modules/cells and comprising of edge beams, two central beams, chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorized representative	Metre	Rate as per local competitive quotations
M-129	Nipples 12mm	No's	20
M-130	Nuts and bolts	Kg	100
M-131	Paint	Litre	255
M-132	Pavement Marking Paint	Litre	Rate as per local competitive quotations
M-133	Paving Fabric	Sqm	
M-134	Perforated geo synthetic pipe 150 mm dia	Metre	
M-135	Perforated pipe of cement concrete, internal dia 100 mm	Metre	
M-136	Pesticide	Kg	Rate as per local competitive

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**Part I - Materials not covered under Irrigation basic data– Common SoR 2014-15**

Sl. No.	Description	Unit	S. Rate for 2014-15
1	2	3	4
			quotations
M-137	R.C.C Pipes 200 mm dia, 2.5 m long for drainage	Metre	Rate as per PH item
M-138	Plastic sheath, 1.25 mm thick for dowel bars	Sqm	Rate as per local competitive quotations
M-139	Plastic tubes 50 cm dia , 1.2 m high	No's	
M-140	Polymer braids	Metre	
M-141	Pre moulded Joint filler, 25 mm thick for expansion joint.	Sqm	
M-142	Pre-coated stone chips of 13.2 mm nominal size	Cum	
M-143	Preformed continuous chloroprene elastomer or closed cell foam sealing element with high tear strength, vulcanized in a single operation for the full length of a joint to ensure water tightness.	Metre	Rate as per local competitive quotations
M-144	Pre-moulded asphalt filler board	Sqm	Rate as per local competitive quotations
M-145	Pre-packed cement based polymer concrete of strength 45 Mpa at 28 days	Kg	
M-146	Primer	Kg	
M-147	Quick setting compound	Kg	As per local market rate
M-148	Random Rubble Stone( <b>Including Loading Charges but excluding Seignorage Charges</b> )	Cum	252.00
M-149	RCC Pipe NP 4 heavy duty non pressure pipe 1000 mm dia	Metre	Rate as per PH items
M-150	RCC Pipe NP 4 heavy duty non pressure pipe 1200 mm dia	Metre	
M-151	RCC Pipe NP 4 heavy duty non pressure pipe 300 mm dia	Metre	
M-152	Reflectorising glass beads	Kg	Rate as per local competitive quotations
M-153	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Copper Strips)	Metre	
M-154	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Galvanized carbon steel strips)	Metre	
M-155	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Glass reinforced polymer/ fiber reinforced polymer/polymeric strips)	Metre	



**Part I - Materials not covered under Irrigation basic data– Common SoR 2014-15**

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>S. Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
M-156	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Stainless steel strips)	Metre	Rate as per local competitive quotations
M-157	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Aluminum strips)	Metre	
M-158	Rivets	Each	7.00
M-159	Sand bags (Cost of sand and Empty cement bag)	No's	18.00
M-160	Sapling 2 m high 25 mm dia	Each	Rate as per local competitive quotations
M-161	Scrap tyres of size 900 x 20	No's	80.00
M-162	Seeds(Grass)	Kg	18.00
M-163	Cost of Selected earth (Excluding Seignorage Charges)	Cum	Rate as per Item No. M-092
M-164	Separation Membrane of impermeable plastic sheeting 125 micron thick	Sqm	Rate as per local competitive quotations Rate as per local
M-165	Sheathing duct	Metre	
M-166	Shrubs	Each	15.00
M-167	Sludge / Farm yard manure @ 0.18 cum per 100 sqm at site of work for turfing	Cum	Rate as per local competitive quotations
M-168	Sodium vapour lamp	Each	As per Building SSR
M-169	Square Rubble Coursed Stone(Including Loading Charges but excluding Seignorage charges)	Cum	2236.00
M-170	Steel circular hollow pole of standard specification for street lighting to mount light at 5 m height above deck level	Each	Rate to be obtained from Electricity/Municipal Departments Rate to be obtained from
M-171	Steel circular hollow pole of standard specification for street lighting to mount light at 9 m height above road level	Each	
M-172	Steel drum 300 mm dia 1.2 m high/empty bitumen drum	No's	As per local competitive market rate As per local
M-173	Steel helmet and cushion block on top of pile head during driving.	Kg	
M-174	Steel pipe 25 mm external dia as per IS:1239	Metre	288.00
M-175	Steel pipe 50 mm external dia as per IS:1239	Metre	561.00
M-176	Steel wire rope 20 mm	Kg	185.00
M-177	Steel wire rope 40 mm	Kg	211.00
M-178	Strip seal expansion join	Metre	Rate as per local competitive quotations

**Part I - Materials not covered under Irrigation basic data– Common SoR 2014-15**

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>S. Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
M-179	Structural Steel(HYSD/TMT bars)	Tone	Rate as per item no.62 of Material rates of I&CAD
M-180	Super plasticizer admixture IS marked as per 9103-1999	Kg	Rate as per item no.70 of Material rates of I&CAD
M-181	Synthetic Geo grids as per clause 3102.8 and approved design and specifications.	Sqm	Rate as per local competitive quotations
M-182	Through and bond stone (a) 20X20x30 to 45 cm long	Each	Rate as per item no.75 of Material rates of I&CAD.
	Through and bond stone (b) 25X25x45 to 60 cm long	Each	Rate as per item no.76 of Material rates of I&CAD.
	Through and bond stone (c) 30X30x65 to 75 cm long	Each	Rate as per item no.77 of Material rates of I&CAD.
M-183	Tie rods 20mm diameter	No's	54.00
M-184	Tiles size 300 x 300 mm and 25 mm thick	Each	As per Building SSR
M-185	Timber	Cum	
M-186	Traffic cones with 150 mm reflective sleeve	No's	Rate as per local competitive quotations
M-187	Tube anchorage set complete with bearing plate, permanent wedges etc	No's	Rate as per local competitive
M-188	Un slaked lime	Tonne	2616.00
M-189(a)	Water charges(Urban)	KiloLitre	103
b)	Water charges(Rural)	KiloLitre	77
M-190	Water based cement paint	Litre	As per Building SSR
M-191	Welded steel wire fabric	Kg	155.00
M-192	Wire mesh 50mm x 50mm size of 3mm wire	Kg	252.00
M-193	Wooden ballies 2" Dia for bracing	Each	As per Building SSR As per Building SSR
M-194	Wooden ballies 8" Dia and 9 m long	Each	
M-195	Wooden packing	Cum	1265.00
M-196	Wooden staff for fastening of flag 25 mm dia, one m long	Each	75.00

**Part I - Materials not covered under Irrigation basic data– Common SoR 2014-15**

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>S. Rate for 2014-15</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Item 8.3	Printing new letter and figures of <u>any shade</u> (ii) English Roman	per cm height per letter	1.60
Item 8.8	Painting Two Coats on New Concrete Surfaces	Sqm	As per Building SSR
Item 8.9	Painting angle iron post Two Coats	Sqm	As per Building SSR
<b>Miscellaneous Items</b>			
1	Benching old embankment slopes 0.45 X 0.45 M	RM	4.20
2	Laying Sand Bags in the stipulated places including cost of empty cement bag, sand, thread, stitching charges and labour charges with 14% overhead charges and contractors profits.	per bag	25.60
3	Rough stone for revetment 225mm thick ( including Loading charges but excluding Seigniorage charges)	Cum	144.00
4	Eradication of Weed growth from Drains, Canals by spraying Chemicals	Sqm	1.75
5	Thinner	Ltr	140.00

# Conveyance Charges of Material

**CONVEYANCE CHARGES OF MATERIALS AS PER SoR 2014-15**  
**(COMMON TO ALL DEPARTMENTS).**

**LEAD, LIFT, LOADING AND UNLOADING CHARGES FOR MATERIALS FOR THE  
YEAR: 2014-15**

1. For total lead up to 150 m (including initial lead) lead charges by head load only shall be adopted irrespective of mode of conveyance.
2. For total lead exceeding 150 m conveyance by mechanical means only shall be adopted irrespective of mode of conveyance.
3. The rates for loading at quarry including idle hire charges of trucks and hire charges per for each kilometer and up to 5 km are cumulative and inclusive of total charges for Preceding lead.
4. Unless otherwise specified lead charges for Earth / Sand / Gravel / Aggregates and Stones are for loose volume and not for compacted or in-situ volume.
5. The rates for lift charges, lead charges, hire charges are cumulative and inclusive of rates for preceding lift, lead and hire charges.
6. Lift charges are not payable where conveyance of materials is by mechanical means to final placing point.
7. Loading and unloading charges are not payable for conveyance by head load.
8. Loading charges are not payable for conveyance by mechanical means for disposal of excavated materials beyond initial lead of 50 m wherever specified.
9. Loading and unloading charges are not payable for conveyance by mechanical means for disposal of excavated materials beyond initial lead of 1 km wherever specified.
10. The rates for unloading of materials except earth, sand, gravel, coarse aggregate, rubble, size stone and cut stone are inclusive of stacking.
11. Hire charges are per 1KM for tippers and trucks for transport of materials from work site to dump yard and other places are cumulative & includes previous km up to 5 kms
12. The lead & lift charges are inclusive of contractor's profit and overhead charges of 14%
13. **During the BoCE meeting held on 24-05-2014, it is observed that in some of the estimates, Lead Charges are being added directly to the material basic rates for arriving the finished item rate. In view of that, the BoCE has instructed to see that while arriving the finished item rate, the lead charges are to be added to the material basic rates only after deducting the provision of "Contractor's Profit and Overhead charges"**

**Conveyance Charges of Material – Common SoR 2014-15**

**A. (LEAD) CONVEYANCE CHARGES FOR MATERIALS BY HEAD LOAD  
FOR THE YEAR: 2014-15**

Sl No.	Total distance ( Total lead includes initial lead )	Earth / Sand /Gravel / Murrum/ Lime/ Surki/ Size stone / Cut stone Rubble / Coarse aggregate Rs/Cum	Cement / Reinforce- ment steel Str steel Rs / tonne	PCC slab/ Shahbad slab / CC block/ BS slab/ Late-rite / Wood Rs / cum
1	2	3	4	5
1	Total lead up to 50 m (covered by item rate)	initial lead	initial lead	initial lead
2	Total lead up to 100 m	48.00	28.00	61.10
3	Total lead up to 150 m	96.10	56.10	122.30

Notes: 1. No loading or unloading charges are admissible for conveyance by head load.

2. For total lead exceeding 150 m conveyance charges by mechanical means only shall be adopted irrespective of mode of conveyance.

**3.The lead & lift charges are inclusive of 14% Contractor Profit and Over Head charges**

**B.( LEAD) CONVEYANCE CHARGES FOR MACHINERY PER KILOMETER FOR  
TRANSPORTING MATERIALS BY TIPPERS AND TRUCKS EXCLUDING LOADING,  
UNLOADING AND IDLE HIRE CHARGES OF MACHINERY  
FOR THE YEAR: 2014-15**

**( No loading and unloading charges allowed for machinery loading and unloading )**

Sl No.	Distance	(Lead) charges for trucks and tippers for Earth / Sand /Gravel / Murrum/ Lime/ Surki/ per cu.meter	(Lead) charges for trucks and tippers for Rubble/Size stones/ Cut Stones/ Coarse aggregate per cu.meter	(Lead) charges for trucks and tippers for Cement/ Steel/ RCC poles/ AC & GI sheets/ Packed materials/tonne	(Lead) charges for trucks and tippers per cu.meter for PCC slabs/ Shahabad slabs/ CC & Laterite blocks/ Wood/ cum	(Lead) charges for trucks and tippers per cu. meter water/ 10	(Lead) charges for trucks per 1000 nos. of bricks
1	2	3	4	5	6	7	8
1	Lead up to 1 km	31.50	30.40	19.00	44.70	18.80	50.70
2	Lead up to 2 km	44.10	42.60	26.60	62.60	26.30	71.00
3	Lead up to 3 km	58.90	58.90	36.80	86.60	35.00	94.60
4	Lead up to 4 km	71.50	71.50	44.70	105.10	42.50	114.90
5	Lead up to 5 km	84.10	84.10	52.60	123.70	50.00	135.20
6	for Every km beyond 5 km up to 30 km	12.60	12.60	7.90	18.50	7.50	20.30
7	for Every km beyond 30 km	10.50	10.50	6.60	15.50	6.30	16.90

**Note: The lead & lift charges are inclusive of 14% Contractor Profit and Over Head charges**

**C. LOADING AND UNLOADING CHARGES BY MANUAL MEANS  
( idle hire charges of trucks are not added)**

Sl No.	Description of item	Earth / Sand /Gravel /Murrum/ / Surki/ Rs / cum	Rubble/ size stone/ cut stone/ Coarse aggregate, Lime in Rs/cum	cement in Rs/tonne	steel in Rs./tonne	brick work Rs/1000 No
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	Loading	16.00	32.00	52.80	63.30	44.00
2	Unloading	8.00	16.00	52.80	63.30	44.00

**Note: The lead & lift charges are inclusive of 14% Contractor Profit and Over Head charges**

**D. LOADING AND UNLOADING CHARGES BY MANUAL MEANS  
(including idle hire charges of trucks)**

Sl No.	Description of item	Earth / Sand /Gravel /Murrum/ / Surki/ Rs / cum	Rubble/ size stone/ cut stone/ Coarse aggregate, Lime in Rs/cum	cement in Rs/tonne	steel in Rs./tonne	brick work Rs/1000 No
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	Loading	108.20	124.20	154.20	164.70	211.30
2	Unloading	38.60	62.10	154.20	164.70	211.30

**Note: The lead & lift charges are inclusive of 14% Contractor Profit and Over Head charges.**

**E.LOADING AND UNLOADING CHARGES BY MECHANICAL MEANS  
(including idle hire charges of trucks)**

Sl No.	Description of item	Earth / Sand /Gravel /Murrum/ / Surki/ Rs / cum	Rubble/ size stone/ cut stone/ Coarse aggregate, Lime in Rs/cum
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
1	Loading	52.50	105.00
2	Unloading	15.90	15.90

**Note: The lead & lift charges are inclusive of 14% Contractor Profit and Over Head charges**

**F. LIFT CHARGES FOR MATERIALS BY HEAD LOAD**

Sl No.	Total lift ( Total lift includes initial lift )	Earth / Sand /Gravel Murrum/ Lime/ Surki/ Size stone / Cut stone Rubble / Coarse aggregate Rs / cum	Cement / Reinforce- ment steel Str steel Rs / tonne	PCC slab/ Shahbad slab / CC block/ BS slab / Laterite / Wood Rs / cum
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1	Total lift up to 3 m (covered by item rate)	Initial lift	Initial lift	Initial lift
2	For Every 1.00 Lift beyond initial lift of 3 meters	5.60	4.10	7.50

**Note: The lead & lift charges are inclusive of 14% Contractor Profit and Over Head charges**



# **HIRE CHARGES**

**Machinery Hire Charges – Common SoR 2014-15**

**HIRE CHARGES OF PLANT & MACHINERY  
FOR THE YEAR : 2014-15**

Sl. No	Description of machinery	Unit	Hire charge in Rs	Fuel charge in Rs	Crew Charge in Rs.	Total in Rs
1	2	3	4	5	6	7
1	Agitator car / Transit mixer 2 cum	Hour	758.40	937.80	244.90	1941.10
2	Air compressor 5 cmm ( electric )	Hour	108.30	256.80	142.40	507.50
3	Air compressor 7 cmm ( diesel )	Hour	241.30	767.30	182.20	1190.80
4	Air compressor 7 cmm ( electric )	Hour	131.90	342.40	142.40	616.70
5	Air compressor 8.5 cmm ( diesel)	Hour	275.60	959.10	182.20	1416.90
6	Air compressor 8.5 cmm ( electric)	Hour	170.80	428.00	142.40	741.20
7	Air compressor 15 cmm ( electric)	Hour	138.80	951.20	151.80	1241.80
8	Angle Dozer 90 hp	Hour	1715.50	656.00	204.10	2575.60
9	Batching plant 0.5 cum ( 6 Cum/hr)	Hour	114.60	114.10	293.80	522.50
10	Batching plant 2 x 1.00 cum (15 Cum/hr)	Hour	405.40	342.40	293.80	1041.60
11	Batching plant 2 x 1.50 cum ( 50 Cum/hr)	Hour	518.10	418.50	293.80	1230.40
12	Bending machine 3000 x 12 mm	Hour	42.60	114.10	113.90	270.60
13	Clamp shell and hoisting ropes	Hour	5.40	0.00	0.00	5.40
14	Concrete bucket 1.5 cum	Hour	15.80	0.00	0.00	15.80
15	Concrete hand mixer 45 / 30 ltr	Hour	5.50	0.00	0.00	5.50
16	Concrete mixer 300 / 200 ( diesel)	Hour	53.50	85.30	189.80	328.60
17	Concrete mixer 300 / 200 ltr ( electric)	Hour	51.70	38.00	189.80	279.50
18	Concrete mixer 600 / 400 ( diesel)	Hour	92.70	170.50	189.80	453.00
19	Concrete mixer 600 / 400 ltr ( electric)	Hour	91.00	76.10	189.80	356.90
20	Concrete paver 100 sqm / hr	Hour	356.50	0.00	364.40	720.90
21	Concrete placer pump / hour	Hour	822.80	264.80	151.80	1239.40
22	Convey mucker	Hour	319.00	255.80	244.90	819.70
23	Core drilling machine	Hour	65.80	682.00	113.90	861.70
24	Diesel generating set 30 KVA	Hour	85.10	1023.00	113.90	1222.00
25	Diesel generating set 50 KVA	Hour	381.60	575.40	142.40	1099.40
26	Diesel Loco 45 hp	Hour	10.20	85.30	96.10	191.60
27	Dewatering pump 5 hp ( diesel )	Hour	3.00	38.00	72.10	113.10
28	Dewatering pump 5 hp ( electric )	Hour	15.20	170.50	96.10	281.80

**Machinery Hire Charges – Common SoR 2014-15**

<b>Sl. No</b>	<b>Description of machinery</b>	<b>Unit</b>	<b>Hire charge in Rs</b>	<b>Fuel charge in Rs</b>	<b>Crew Charge in Rs.</b>	<b>Total in Rs</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
29	Dewatering pump 10 hp ( diesel )	Hour	6.70	76.10	72.10	154.90
30	Dewatering pump 10 hp ( electric	Hour	48.30	341.00	96.10	485.40
31	Dewatering pump 20 hp ( diesel )	Hour	12.30	152.20	72.10	236.60
32	Dewatering pump 20 hp ( electric	Hour	322.70	0.00	306.20	628.90
33	Drifter	Hour	368.40	46.00	151.80	566.20
34	Drilling jumbo	Hour	580.70	429.70	195.90	1206.30
35	Dumper 4.5 cum	Hour	99.00	0.00	0.00	99.00
36	Geophysical Electric resistivity meter	Hour	24.90	38.00	227.80	290.70
37	Grouting pump	Hour	110.10	0.00	189.80	299.90
38	Guniting / sand blast equipment	Hour	170.20	1084.30	113.90	1368.40
39	Ice plant & accessories 30 t/ day	Hour	19.80	0.00	284.70	304.50
40	Jack hammer	Hour	7.60	21.50	136.60	165.70
41	Needle vibrator 40 mm ( petrol )	Hour	8.00	7.60	136.60	152.20
42	Needle vibrator 40 mm ( electric )	Hour	8.20	32.20	136.60	177.00
43	Needle vibrator 60 mm ( petrol )	Hour	9.70	11.40	136.60	157.70
44	Needle vibrator 60 mm ( electric )	Hour	117.80	114.10	182.20	414.10
45	Planing machine 4 m stroke	Hour	41.90	152.20	122.50	316.60
46	Plate shearing machine up to 12 mm	Hour	171.10	0.00	75.10	246.20
47	Pneumatic placer 0.5 cum	Hour	20.70	0.00	227.80	248.50
48	Pneumatic tamper	Hour	6.40	3.80	0.00	10.20
49	Pug cutting machine	Hour	12.70	0.00	0.00	12.70
50	Pusher leg	Hour	197.20	767.30	182.20	1146.70
51	Road roller diesel 10 t	Hour	1003.10	511.50	204.10	1718.70
52	Shovel 0.50 cum 75 hp	Hour	1706.60	937.80	204.10	2848.50
53	Shovel 0.85 cum 110 hp	Hour	86.10	0.00	0.00	86.10
54	Stationery derrick crane	Hour	446.70	322.20	153.10	922.00
55	Tipper 5 cum	Hour	64.20	0.00	0.00	64.20
56	Tipping tub 1.5 cum	Hour	867.10	197.80	163.30	1228.20
57	Tower crane 5 tonne	Hour	5041.00	0.00	0.00	5041.00
58	Transformer 250 KVA	Hour	414.10	322.20	153.10	889.40
59	Truck 10 t	Hour	519.70	322.20	153.10	995.00
60	Truck mounted derrick crane 5 t	Hour	22.50	38.00	171.60	232.10
61	Upright drilling machine/grinder	Hour	11.50	152.20	24.90	188.60

**Machinery Hire Charges – Common SoR 2014-15**

<b>Sl. No</b>	<b>Description of machinery</b>	<b>Unit</b>	<b>Hire charge in Rs</b>	<b>Fuel charge in Rs</b>	<b>Crew Charge in Rs.</b>	<b>Total in Rs</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
62	Ventilation fan 20 hp	Hour	1342.20	1108.30	227.80	2678.30
63	Vibratory pad foot roller 8 t	Hour	188.50	0.00	244.90	433.40
64	Wagon drill	Hour	402.50	322.20	153.10	877.80
65	Water tanker 8000 ltr	Hour	16.00	91.30	0.00	107.30
66	Welding set	Hour	129.40	186.40	227.80	543.60
67	Winch 35 hp ( electric )	Hour				345.00
68	Tractor with 2 T roller	Hour				
69	Hydraulic Truck Crane 30T	Hour	3096.80	118.80	454.30	3669.90
70	Hydraulic Truck Crane 16T	Hour	2278.10	75.00	454.30	2807.40
71	Heavy Duty Airless Spray Painting Equipment	Hour	121.40			121.40

# **PUBLIC HEALTH ITEMS**

PUBLIC HEALTH ITEMS			
Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
1	RATES OF LABOUR (SKILLED WORKMEN)		
	1. Caulkar	Per Day	As per Labour rates of SoR
	2. Plumber 1st Class	Per Day	
	3. Plumber 2nd Class	Per Day	
	4. Sewer Cleaner	Per Day	
	5. Well Sinker	Per Day	
	6. Pipe line Fitter 1st Class	Per Day	
	7. Pipe line Fitter 2nd Class	Per Day	
	8. Pump Operator	Per Day	
	9. Bore Mechanic	Per Day	
	10. Light Vehicle Driver	Per Day	
	Note: The rate at relevant item in common SoR is applicable for occasional employment.		
2	RATES FOR EARTH WORK :		
a.	Earth work excavation in all types soils for pipe lines, for drainage and water supply, where the depth is more than 1.5 times the width.		To follow the relevant items of Irrigation work items as per AP.Standard data
b.	Earth work excavation in all types soils for pipe lines, for drainage and water supply, where the depth is less than 1.5 times the width.		
c.	Earth work excavation in all types soils for open trenches, for valve pits, inspection chambers, etc.		
3. a.	Excavation of pipe line trenches for drainage and water supply in rock requiring blasting with initial lead and lift including cost of blasting materials where the depth is more than 1.5 times the width, in places where there is no habitation.		
b.	Excavation of pipe line trenches for drainage and water supply in rock requiring blasting with initial lead and lift including cost of blasting materials where the depth is less than 1.5 times the width, in places where there is no habitation.		
c.	Cutting rock for pipe line trenches by hammers, nuckles and chisels including stacking where the depth is 1.5 times or more than the width.		
d.	Cutting rock for pipe line trenches by hammers, nuckles and chisels including stacking where the depth is less than 1.5 times the width.		
e.	Cutting rock for works other than pipe lines trenches by hammers, nuckles and chisels including stacking.		
f.	For controlled blasting at restricted places		
	NOTE :- Rock should be measured in solids. In case it is not possible, stacks should be made in which case 40% for voids to be deducted from the stack measurements.		
4	Loading or unloading materials such as C.I. Pipes, PVC Pipes, AC Pressure Pipes, DI Pipes, SW Pipes, PVC Pipes, A.C/Specials less than 300 mm dia upto 4 m in length including stacking.		
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	To follow as per AP.Standard
b.	A.C. Pipes & Specials	Per Tonne	
c.	Stoneware pipes & Specials	Per Tonne	

Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
d.	P.V.C. Pipes and fittings	Per Tonne	data
5	Loading or unloading materials such as C.I. Pipes, DI pipes, SW pipes, AC pressure pipes & fittings/ specials from 300 mm to 600 mm dia upto 4 m in length including stacking.		
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	To follow as per AP.Standard data
b.	A.C. Pipes & Specials	Per Tonne	
c.	Stoneware pipes & Specials	Per Tonne	
6	Loading or unloading materials such as C.I. Pipes, DI pipes, PVC pipes, AC pipes less than 300 mm dia, above 4 m in length including stacking.		
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	To follow as per AP.Standard data
b.	A.C. Pipes & Specials	Per Tonne	
c.	P.V.C. Pipes and fittings	Per Tonne	
7	Loading or unloading materials such as C.I. Pipes, DI pipes, AC pipes from 300 mm to 600 mm above 4 m in length including stacking.		To follow as per AP.Standard data
a.	C.I. Pipes/D.I. Pipes and fittings	Per Tonne	
b.	A.C. Pipes & Specials	Per Tonne	
	Note:- For loading and unloading the above materials at Railway Stations, the rates may be adopted based on the competitive quotations or the hammalae charges if prevailing.		
8. a.	Lowering C.I. / D.I. Pipes (all classes) and specials (fittings) with s/s ends carefully into trenches and laying them true to alignment and gradient including all sundries but excluding cost and conveyance of pipes from source of supply (Ref to specifications. BIS No.3114/1994)		To follow as per AP.Standard data
	Diameter of Pipe/Fittings in mm :		
	80mm to 1000mm dia	Per Metre	
8. b.	Lowering C.I. / D.I. Pipes (all classes) and specials (fittings) with flanged ends carefully into trench and laying them true to alignment and gradient including all sundries but excluding cost and conveyance of pipes from source of supply. (Reference to specifications. BIS No.3114/1994)		
	Diameter of Pipe/Fittings in mm :		
	80mm to 750mm dia	To follow as per AP.Standard data	
	800mm dia	Per Metre	482.00
	900mm dia	Per Metre	626.00
	1000mm dia	Per Metre	814.00
	1100mm dia	Per Metre	1003.00
	1200mm dia	Per Metre	1192.00
9. a.	Jointing CI /DI pipes & fittings with s/s ends including cost of pig lead, Spun yarn and sundries such as cost of fuel for melting lead, filling with water with lead up to 500m and testing to required pressure complete. (Reference to specifications. BIS No.3114/94/12288:1997)		
	Diameter of Pipe/Fittings in mm :		
	80mm to 800mm	To follow as per AP.Standard data	
	900mm dia	Each Joint	13852.00
	1000mm dia	Each Joint	15475.00

Sl. No.	Description	Unit	SoR for 2014-15	
1	2	3	4	
	1100mm dia	Each Joint	17097.00	
	1200mm dia	Each Joint	18720.00	
9. b.	Jointing C.I., D.I. pipes and fittings with rubber gasket (push-on-joint), excluding the cost of the gasket but including all sundries filling with water, with a water lead up to 500m and testing to required pressure, etc. complete (Reference to specifications IS 3114/1994/12888/1997)		To follow as per AP.Standard data	
	Diameter of Pipe/Fittings in mm :			
	80mm to 1000mm dia	Each Joint		
10	Jointing CI pipes, fittings and valves with flanged ends including cost of jointing materials such as bolts, rubber insertion, white lead including filling with water, with lead up to 500 meters and testing to required pressure complete. (Reference to specifications. BIS No.3114/1994.)		To follow as per AP.Standard data	
	Diameter of pipe/Fittings/ valve in mm :			
	80mm to 750mm dia	Each Joint		
	800mm dia	Each Joint		5808.00
	900mm dia	Each Joint		6831.00
	1000mm dia	Each Joint		7866.00
	1100mm dia	Each Joint		8928.00
	1200mm dia	Each Joint		10027.00
11a	Lowering the RCC plain ended pipes carefully into the trench laying them true to alignment and gradient, jointing RCC pipes with cement joints including curing, the cost of jointing materials i.e., Cement Mortar (1:1.5), hemp yarn etc., and testing including filling with water with a water lead upto 500 metres excluding cost of rubber rings as per BIS No.783/85.			18.00
	per every 25 mm dia.	Per Metre		
11b	Lowering the RCC S/S pipes carefully into the ready made trenches laying them true to alignment and gradient, jointing with rubber rings and testing including filling with water with a water lead upto 500 meters including cost of rubber rings as per BIS No. 783/1985		To follow as per AP.Standard data	
	per every 25 mm dia.	Per Metre		
	80mm to 600mm			
	700mm dia			292.00
	800mm dia			350.00
	900mm dia			420.00
	1000mm dia		503.00	
12	Lowering and Jointing G.I. pipes and specials / fittings including excavation of trench of 0.5m width and 0.50 m depth in all soils except rock requiring blasting and refilling trenches after laying and jointing pipes and also including cost of jointing materials but excluding the cost of pipes. Reference to specifications. BIS No.783/85		To follow as per AP.Standard data	
a	G.I. Pipes :Dia in mm			
	15mm to 150mm	Per Metre		



Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
b	Laying, jointing of PVC/HDPE pipes as per BIS No.7634 part-III/75 for PVC and BIS No.7634 part-II/75 for HDPE pipes including trench excavation and refiling.		
	Dia in mm		
	20mm dia	Per Metre	24.00
	25mm dia	Per Metre	25.00
	32mm dia	Per Metre	28.00
	40mm dia	Per Metre	28.00
	50mm dia	Per Metre	28.00
	Note:(i) The above rates are applicable for the works in District only.		
	(ii) If the depth of excavation is more than 0.5 m separate rates to be worked out.		
13	Lowering and laying in ready made trench true to alignment and gradient, jointing, and testing of <u>Stone ware pipes</u> including cost of jointing material such as cement mortar (1:1) proportion and hemp yarn but excluding cost and conveyance of pipe. (Reference to specifications BIS No. 6530/72)		To follow as per AP. Standard data
	Dia of Pipes in mm .		
	100mm to 450mm	Per Metre	
14	Lowering, laying, jointing and testing to hydraulic test pressure including cost of water with minimum water lead of 500m for <u>UPVC pressure pipes</u> in ready made trenches true to alignment and gradient including all sundries but excluding cost & conveyance of pipes from source of supply and jointing materials as per BIS No. 7634 - Part III - 1975		To follow as per AP. Standard data
	Dia of Pipes in mm .		
	63mm to 315mm	Per Metre	
15	Laying and jointing of HDPE pipes by butt fusion welding as per IS:7634 – part-II/1975 as amended from time to time to the alignment and gradient and testing the pipeline to the required pressure.		
	Outer Dia of pipes in MM		
	63mm dia OD	Per Metre	35.00
	75mm dia OD	Per Metre	39.00
	90mm dia OD	Per Metre	44.00
	110mm dia OD	Per Metre	50.00
	125mm dia OD	Per Metre	61.00
	140mm dia OD	Per Metre	64.00
	160mm dia OD	Per Metre	69.00
	180mm dia OD	Per Metre	76.00
	200mm dia OD	Per Metre	83.00
	225mm dia OD	Per Metre	91.00
	250mm dia OD	Per Metre	97.00
	280mm dia OD	Per Metre	107.00
	315mm dia OD	Per Metre	174.00
	355mm dia OD	Per Metre	194.00
	400mm dia OD	Per Metre	216.00
	450mm dia OD	Per Metre	240.00

Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
16	Lowering, keeping in position and fixing C.I. sluice valves (with cap / with hand wheel & Reflex valves) excluding cost of bolts, nuts, rubber insertion, sluice valve and tail pieces		To follow as per AP. Standard data
	<u>Dia of Valve in mm.</u>		
	80mm to 450mm	Each	
17	Labour charges for fixing <u>Air valves</u> including boring the mains and threading the bore fixing nipple etc., complete.		To follow as per AP. Standard data
	<u>Dia of Air valve in mm.</u>		
	25mm dia	Each	
	40mm dia	Each	
	50mm dia	Each	150.00
	65mm dia	Each	160.00
	80mm dia	Each	174.00
	100mm dia	Each	205.00
	125mm dia	Each	319.00
	150mm dia	Each	350.00
18	Labour charges for fixing Kinetic Air Valves with isolating Sluice valves, Double Air valves/ Air Cushion valve excluding cost of jointing materials such as bolts, nuts and rubber insertions etc., complete.		
	<u>Dia of Air valve in mm.</u>		
	25mm dia	Each	142.00
	40mm dia	Each	161.00
	50mm dia (Double Air valves)	Each	171.00
	65mm dia (Double Air valves)	Each	183.00
	80mm dia (Double Air valves)	Each	200.00
	100mm dia (Double Air valves)	Each	233.00
	125mm dia (Double Air valves)	Each	364.00
	150mm dia (Double Air valves)	Each	398.00
19	Uprooting C.I./ DI Pipes by melting the lead, loosening the joints, scraping the pipes, hoisting and keeping within a lead of 10 m but excluding earth work excavation and refilling.		To follow as per AP. Standard data
	80mm to 600mm	Per Metre	
20	Uprooting of RCC pipes including breaking the collars, loosening the joint, seperating the pipes, hoisting and keeping within a lead of 10 m but excluding earthwork excavation and refilling.	Per Metre	To follow as per AP. Standard data
	100mm to 300mm		
21	Removing old G.I.pipes and specials / fittings and cleaning, scraping the pipes, hoisting and keeping with in 50m lead but excluding earth work excavation of trenches and refilling.		To follow as per AP. Standard data
	<u>Dia of Pipes in mm</u>		
	15mm to 50mm	Per Metre	
22	Cutting C.I./ DI Pipes without water in mains.Dia of pipes in mm.		
	<u>Dia of Pipes in mm</u>		
	80mm to 600mm	Each cut	To follow as per AP. Standard data
	680mm dia	Each cut	442.00
	700mm dia	Each cut	454.00

Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
	750mm dia	Each cut	488.00
	800mm dia	Each cut	520.00
	900mm dia	Each cut	584.00
	1000mm dia	Each cut	649.00
	1100mm dia	Each cut	715.00
	1200mm dia	Each cut	780.00
23	Cutting A.C. Pipes without water in mains.Dia of pipes in mm.	Each cut	
	Dia of Pipes in mm		
	80mm dia	Each cut	29.00
	100mm dia	Each cut	29.00
	125mm dia	Each cut	29.00
	150mm dia	Each cut	29.00
	200mm dia	Each cut	30.00
	250mm dia	Each cut	49.00
	300mm dia	Each cut	49.00
	350mm dia	Each cut	61.00
	400mm dia	Each cut	67.00
	450mm dia	Each cut	84.00
	500mm dia	Each cut	93.00
	600mm dia	Each cut	102.00
24	Drilling and tapping CI/ DI / GI Main and fixing brass screw down ferrule and plug.		To follow as per AP.
	10 mm to 20mm	Each Tapping	Standard data
	25 mm to 40mm	Each Tapping	
25	Cutting road surface including stacking of excavated materials for pipe line trench work.		
	a) Cutting open B.T. road surface (as well as asphalt concrete upto 75 mm thick) including water bound macadam	10 Sqm	596.00
	b) Cutting open C.C. road surface	1 Cum	1656.00
	c) Cutting open water bound macadam road including soiling	1 Cum	204.00
26	Bailing out water.(For PH item)		
	a) Bailing out water from the pipe line trenches with oil engine driven pumpsets, including hire charges, fuel charges and wages for Driver and Helper.	HP/Hour	48.00
	b) Bailing out water from the pipe line trenches with Electric Driven pumpset including hire charges, current charges and wages for Driver and Helper.	HP/Hour	35.00
	NOTE:- The rate is payable on the total H.P. hours ignoring fractions less than 0.5 HP hour and rounding off 0.5 HP hour or more to the next higher integer.		
27	Shoring and strutting of trenches for water and sewer main.		
	a) Single Staging from (0 to 2.5 Mts.)	1 Sqm of Shoring area	To follow as per AP.
	b) Double staging from (2.5 m to 4.5 Mts.)	1 Sqm of Shoring area	Standard data

Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
28	Barricading, hoarding, lighting and watching etc., for water supply and sewerage works for trenches.	1 RMT	To follow as per AP. Standard data
29	Excavation of trenches for infiltration galleries, syphon lines and connecting mains in all soils under water including all leads, lifts, shoring, strutting, bailing out water and removal of shoring and strutting materials, after completion of pipe line work.		
	a) 0 to 1 m deep under water.	10 Cum	10610.00
	b) 1 to 2 m deep under water.	10 Cum	15197.00
	c) 2 to 5 m deep under water.	10 Cum	22811.00
	d) Beyond 5 m deep under water for every additional 1 m depth over item 'c'	10 Cum	4358.00
	NOTE:- The above rates do not include rock requiring blasting or chiselling		
30	Laying and jointing <u>perforated RCC pipes</u> inclusive of bailing out water and jointing with cement fillets and all other incidental charges for infiltration gallery inclusive of bailing out water by pumping to keep the trench reasonably dry to facilitate the work excluding cost of perforated pipes and collars.	Per Metre	33.00
	per every 25 mm dia.		
31	Centring and scaffolding charges for RCC members including all materials and labour charges for forming and dismantling.		
a)	for R C C Elevated Service Reservoir of staging up to 15 metre below L W L.		
	1) Slabs for thickness (150 mm to 300 mm)	One Sqm of Centering area	2964.00
	2) Slabs for thickness above (300 mm)		5925.00
	3) Side walls curved surfaces.		2239.00
	4) Side wall straight surfaces.		1993.00
	5) Dome.		2427.00
	6) Roof Slab.		1494.00
	7) Column braces and beams		999.00
	8) Circular braces, ring beams & circular column.		1096.00
	Note:- For RCC ELSR of staging above 15 m, the % increase in these rates shall be as follows. 15-18 m ---- 9% 18-21m --- 15% 21-24 m --- 21% 24 m -27m --27% ---- 30%		
		above27m	
b)	For Ground level works :-		
	1) Slabs	1 Sqm	To follow as per AP.Standard data
	2) Beams & Lintels	1 Cum	
	3) Sun shades	1 Sqm	

Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
	4) RCC vertical walls of plane surface	1 Sqm of centering area	796.00
	5) RCC vertical walls of circular faces	1 Sqm of centering area	1014.00
	NOTE: Scaffolding for every extra height of 1 m or part thereof but not less than 0.5 m. The above centering charges are applicable for water retaining structures only.		
32	Lift or delift of materials :		
	a) Lifting of cement concrete for RCC elevated reservoir. For every 1m height or part thereof over the initial lift of 3 m	1 Cum	122.00
	b) Delifting the materials such as stones, concrete etc., for concrete below ground level for construction of masonry ground level reservoirs, construction of masonry ground level reservoirs, inspection wells, test wells and sump wells etc., for every 1 m depth or part thereof beyond the initial depth of 3 meters from ground level.	1 Cum	37.00
33	Labour charges for fixing ventilating shafts complete with all accessories.	Each	To follow as per AP.Standard data
34	Labour charges for fixing water closets including fixing of foot rests (for all sizes).	Each	Relevant Building SoR items
35	Labour charges for fixing of flushing cistern including fixing of flush pipes, lead pipe, jointing etc., complete	Each	
36	Labour charges for fixing wash hand basin including fixing of inlet and waste pipe connections etc., complete	Each	
37	Fixing urinal with inlet and waste pipe connections etc., complete.	Each	
38	Refilling the trench for pipe line with excavated earth including watering and tamping etc., complete	10 Cum	
39(a)	Extra allowance for isolated scattered works viz., valve pits / chambers, public fountains, meter pits and manholes, delivery cistern etc., complete.	Each	50% extra over the cost of chamber.
(b)	Repairs to the existing mains, interconnections, replacement of valves/specials etc., including the cutting ,jointing, bailing out of water, drying, earth work excavation etc., complete.		150% extra over the cost of work
40	Removal of wet silt and sludge from sullage drains with aid of baskets and vessels.	10 Cum	1595.00
41	Well sinking in sandy and other loose soils under water either by manual labour, divers, or dredgers, weighting the top of staining to assist sinking etc., including dewatering and other incidental charges such as hire charges for mechanical equipment etc		
	Upto 2 m below GL/m	Per metre	To adopt as per AP.Standard data
	From 2 to 4 m below GL/m	Per metre	
	From 4 to 6 m below GL/m	Per metre	
	From 6 to 8 m below GL/m	Per metre	

Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
	From 8 to 10 m below GL/m	Per metre	
	Note:-Below 10 m for every metre depth or part thereof add Rs.250/- per m. For higher dia, observed data is to be prepared and got approved.		
42	Sinking in Hard strata other than rock but in soils like limestone, gravel, clay under water including, pumping dewatering, hire charges for mechanical equipment etc., complete.		Observed Data
43	Rates for OHSRs/ELSRs including fixtures with a staging of 15 m, without Seismic analysis.		
a	500 Kilo litres	Per litre	18.27
b	1000 Kilo litres	Per litre	15.10
c	1500 Kilo litres	Per litre	13.63
d	2000 Kilo litres	Per litre	12.74
e	2500 Kilo litres	Per litre	11.96
	1) The above rates are arrived with base rate of Cement Rs.4000/- per MT & Steel for Rs.46,500/- per MT for the month of May'2014		
	2) All concrete components shall be designed with M30 Design Mix proportion.		
	3) For intermediate capacities proportional rates shall be adopted.		
	4) The foundations shall be designed for Annular Raft Footings. The above rates are applicable for Elevated Level Services Reservoirs / OHSRs for SBC of 15 T/Sqm.		
	a) For every decrease of 2.50 T/Sqm of SBC, the rate shall be increased by <b>2.50% on basic rate</b> .		
	b) For every increase of 2.5 T/Sqm of SBC, the rate shall be decreased by <b>1.0% on basic rate</b> .		
	c) For SBC below 10T/sqm , solid raft shall be provided and for solid raft the rate shall be increased by <b>10% on basic rates</b>		
	5) For staging less than 15 m, the rate shall be decreased by Rs.0.05 paise on basic rate per litre per every metre decrease in staging.		
	6) For staging above 15 m, the rate shall be increased by Rs.0.10 paise on basic rate per litre per every metre additional staging.		
	7) The above rates shall be increased / decreased due to increase/decrease in the cost of cement by Basic rate x (Rc-4000) x 0.00007 Rc = Rate of Cement (Rs per MT) at the time of preparation of estimate.		
	8) The above rates shall be increased / decreased due to increase/decrease in the cost of Steel by Basic rate x (Rs-46,500) x 0.00002 Rs = Rate of Steel (Rs per MT) at the time of preparation of estimate.		
	9) Rate inclusive of three coats of epoxy paint Food Grade of best quality to inner surface of the Reservoir including roof.		

Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
	10) The above rates are adopted for preparation of estimate for construction of ELSRs/OHSRs for finished work including 2 coats of weather proof emulsion painting for external surfaces, lettering, all required fixtures, Pipes, Pipe specials, valves of DI material, Valve chambers etc., for pipe connections including cost of pipes, specials and valves as per departmental designs and drawings.		
	11) The above rates adopted for a wind pressure upto "350 kg/sq m". For every 100 kg/sqm decrease in wind pressure, the rate shall be decreased by 5%		
	12) For tribal/Agency / Rural area, the above rates shall be increased by 10%		
	13. The Basic rate is adopted by considering the design for Seismic forces for Zone-I & II only of seismic zones.		
	(a) The basic rates shall be increased by $33^{1/3}$ % for Zone-III of seismic zones.		
	14. The ELSR/OHSR shall be designed with minimum of two rows of columns for capacities above 500 KL & upto 1000KL.		
	15. The ELSR/OHSR shall be designed with minimum of three rows of columns for capacities above 1000KL.		
	<b>16) The basic rate is inclusive of following <u>Fixtures</u></b>		
	i) Pipe connections & Specials with D.I materials		
	a) All pipe connections for Inlet, Out let, Over Flow, Scour pipes shall be provided with D/F DI material. b) The Valves for above pipe connections also shall be of DI material of PN 16 c) All specials such as Bends, Tees, Reducers, Duckfoot Bends, Bell mouths etc., shall be of DI material.		
	II) The sizes of the verticals for ELSR/OHSR shall be:		
	a) For 500 KL to 750 KI ELSRs Inlet Pipe - 300mm dia. Out let Pipe - 350mm dia Over Flow pipe - 350m dia Scour Pipe - 200mm dia		
	b) For 800 KL to 1500 KI ELSRs Inlet Pipe - 400mm dia. Out let Pipe - 450mm dia Over Flow pipe - 450m dia Scour Pipe - 200mm dia		
	c) For above 1500 KL to 2500 KI ELSRs Inlet Pipe - 400mm dia. Out let Pipe - 500mm dia Over Flow pipe - 500m dia Scour Pipe - 200mm dia		

Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
	iii) Manhole Frames & Covers		
	a) All man hole Frames & Covers shall be made of CI/DI materials with min. size of 0.60mX 0.60m - For Roof & Valve Chambers.		
	iv) CI/D.I Double Swan neck ventilators (min.of 150mm dia) shall be provided in top dome and slab with mosquito/fly proof nets - 4Nos.		
	v) RCC Finial ventilator with fly/bird protection with GI mesh - 1 No.		
	vi) RCC precast ladders of 0.60 m width - 2 Nos.		
	vii) RCC dog legged stair case of 1.00 m flight width and 1.20 m landing width R.C.C hand railing of 1.0 m height – 1 No		
	viii)The staircase shall be enclosed with brick masonry walls on three side and collapsible MS gate on front side up to 1 <sup>st</sup> brace level, to prevent unauthorized entry.		
	ix) Construction of R.C.C valve chambers as per Standard Drawings with RCC cover slab fixed with CI/DI manhole Frame & Cover with lock and Key arrangement.The Mix shall not be less than VRCC M 20 grade with 150mm thick side walls, 150mm thick top slab, 150mm thick base slab over base course of 100mm thick (1:4:8) prop.		
	x) Balcony of 1.00 m width at floor slab level / middle ring beam level by using Stainless Steel pipe of grade 304 hand railing up to 1.20 m height, with top railing of 40mm dia pipe & middle railing of 25mm dia and verticals with 40mm dia at an interval not more than of 1.00m c/c.		
	xi) Water Level Indicator of reputed make – Digital type (1 No) and Conventional type (1 No)		
	xii) Lightening Arrestor with all its accessories complete including earthing,with relevant IS Codes - 1 No.		
	xiii) <u>Compound wall</u> : Construction of compound wall including ornamental M.S.Gate of size 3.0 X 2.40m is included in the basic rate of ELSRs. Length of compound wall shall be minimum of 150m. Min. height of the compound wall shall be 1.80m above plinth and thickness 230mm in brick masonry in CM(1:6).The compound wall shall be constructed including earth work excavation in all types of soils for plinth beam of 230mm X 300mm and 0.75X0.75X1.20m size for column footing portions. The footings shall be of 0.75X0.75X0.25m in VRCC M20 grade and constructed over a C.C (1:4:8)prop bed of 100mm thick. The columns shall be of 230X230 mm in size with VRCC M20 grade at 3.00m c/c spacing, having depth of 1.20m below ground level and height of 2.00m above GL. The plinth beam of size of 230X300 mm shall be constructed in VRCC M20 grade at Gound level, over a bed of CC(1:4:8)-100mmthick. 450X450mm size columns in M20 grade shall be constructed for gate pillars. All the materials shall be followed as per the standards.		



Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
	Tie beam shall be provided above the brick work with 230X200mm size, fixed with MS angulars of 25mm X 25mm X 4mm in "Y" shape to height of 0.60m, with embedded length of 150mm in concrete. The barbed wire fencing with 3 ply of 18 gauge shall be stretched in 4 rows (2x2). Plastering shall be done with 16mm thick in two coats i.e., base coat 12mm thick in CM(1:6)prop and 4mm thick 2nd coat CM(1:4) prop on both sides of brick work.		
	Snowcem paint in two coats shall be provided for both sides of wall. The M.S ornamental gate as per the approved drawings shall be provided with minimum of 3.60mts width and 2.40mts height with enamel paint. Yard lighting shall be arranged on four corners of compound wall. If the length of the wall is increased/decreased		
	Note:-For every 1m increase/decrease in length of compound wall the increase/decrease in basic rates of ELSRs of the capacities from 500KL to 2500KL shall be as follows.: i) 500 KL : 0.086% ii) 1000 KL : 0.047% iii) 1500 KL : 0.034% iv) 2000 KL : 0.026% v) 2500 KL : 0.022 % For intermediate capacities, interpolated percentages shall be adopted.		
	xiv) <u>Staff Quarter</u> shall be constructed for a minimum plinth area of 40 sqm with the following specification: RCC framed structure with concrete grade not less than M20 design mix at the locations specified by the department at the time of execution with verandah, hall, bed room, kitchen and bath & W/C with floor area of 40.00sqmts excluding balconies and staircases.		
	MS hollow door frame with cold rolled processed steel sheet 1.25mm thick bright CRCA conforming to IS 4351/76, Flush door shutters with solid bond wood bond board doors shall be provided. N.C.L. Windows centre fixed both sides openable shutter window 1.35 X 1.35mts outer frame section 48 x50mm shutter frame section with a size of 48 X20 mm mullion section of size 48 X 50mm fixed beading section of 12 X 12 mm shall be provided. Flooring with polished Kadapa stone shall be provided. Walls shall be provided with snowcem paint in two coats over primary coat. Electrical and water supply arrangement shall be provided as directed by dept officer. Water Storage tank made with plastic/polymer material of reputed make with necessary out let and inlet connection pipes shall provided. Septic tank for 5 users shall be provided.		
44	Rates for OHSRs/ELSRs including fixtures with a staging of 10 m without Seismic analysis.		
a	Upto 10,000 Litres capacity	Per litre	58.54
b	15,000 Litres capacity	Per litre	40.26
c	20,000 Litres capacity	Per litre	39.56
d	40,000 Litres capacity	Per litre	35.02

Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
e	60,000 Litres capacity	Per litre	26.57
f	1,00,000 Litres capacity	Per litre	24.53
g	2,00,000 Litres capacity	Per litre	21.47
h	3,00,000 Litres capacity	Per litre	20.15
i	4,00,000 Litres capacity	Per litre	17.77
j	4,50,000 Litres capacity	Per litre	15.40
	NOTE: -1) For intermediate ranges proportional rates may be adopted. All VRCC shall be in M30 grade design mix.		
	2)The above rates are applicable for Elevated Level Services Reservoirs / OHSRs with RAFT FOUNDATION and a rate of Rs.4,000/- per tonne for cement and Rs.46,500/- per tonne for steel.		
	3) For every metre of staging less than 10 m, the rate shall be reduced by Rs.0.05 paise per litre per every metre of difference in staging		
	4) For every metre of staging above 10 m , the rate shall be increase by Rs.0.10 paise per litre per every metre of additional in staging		
	5) The above rates shall be increased / decreased due to increase / decrease in the cost of cement by Basic Rate x (Rc-4000) x 0.00007 Rc = Rate of cement (Rs per Mt) at the time of preparation of estimate		
	6)The above rates shall be increased / decreased due to increase / decrease in the cost of steel by Basic Rate x (RS-46500) x 0.00002 Rs = Rate of steel (Rs per Mt) at the time of preparation of estimate.		
	7) Rate inclusive of three coates of epoxy paint to inner surface of the reservoir including roof dome.		
	8) The above rates be adopted for estimate purposes for construction of ELSR for a finished work including 2 coats of wheather proof emulsion painting for external surfaces, lettering, all required fixtures, pipes, bends, valves etc., for pipe connections but excluding cost of pipes,bends and valves as per departmental designs and drawings.		
	9) The above rates are applicable for wind pressures upto 350 kg / sq m .For decrease in wind presure the rate has to be decreased by 5% per every 100kg/sqm. If the ELSR / OHSR is to be designed for seismic forces also, cost shall be arrived by working out detailed quantities based on the designs.		
	10) For Tribal/Agency/ Rural area, the above rates shall be increased by 10%		
	11) If the ELSR is to be designed for seismic forces also, cost shall be arrived by working out detailed quantities based on the design & difference to be paid extra.		

Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
	12) If the ELSR is to be designed for seismic forces a) The above rates are applied upto Zone-II earth quake. b) for Zone-III earth quake the above rates are to be increased by 33.33 % .		
	13) Fixtures include :		
	a) RCC or Aluminium ladder inside 0.60 m wide.		
	b) spiral staircase on the outside shall be provided upto 200KL ELSR. Above 200KL ELSR Capacity dog legged staircase shall be provided with staircase flight width of 1.0mts and landing width of 1.20mts with S.S railing upto 1.0 height.		
	c) Lightning arrestor, including conductor and earthing etc.		
	d) RCC ventilators with copper or stainless steel fly proof mesh.		
	e) D.I Manholes frame and cover 0.60x0.60 m as per IS specifications (light duty) - 2 Nos.		
	f) Water level indicator of good quality with ebonite/ copper float approved pattern - 1 No.		
	g) The ladder shall be with M.S ladder and Verticals with HDPE of 10kg/Sqcm shall be provided for single column OHSRs only.		
	h) Minimum staging for all ELSR/OHSR shall be 10.0mts.		
	i) The increase in staging shall be at 1.0mt interval.		
	j)The railing provided to the gallery and stair case shall be with stainless steel of grade 304 for a height of 1.20mts.		
	k). The dog legged staircase shall be enclosed with brick/CRS wall on three sides and front side with M.S collapsible gate upto 1st brace level from ground level to prevent unauthorized entry.		
	l). D.I swan neck ventilators shall be provided in top dome and slab.		
	m). The above rates are exclusive of all inlet, out let connection and valves. All valves near inlet, out let and for scour of ELSRs shall be D.I valves.		
45	Construction of Rapid Gravity Filtration Plant including all civil, mechanical and electrical works using sand as filter media, compatible with SCADA arrangements, duly following relevant IS codes in the design of plant components including trial running for 90 days etc., complete.		
	1) 2.0 Mld	Per litre	4.33
	2) 5.0 Mld	Per litre	3.58
	3) 10.0 Mld	Per litre	3.15
	4) 20.0 Mld	Per litre	2.76
	5) 30.00 mld and above	Per litre	2.42
	NOTE :-		
	a) For intermediate capacities proportional rates may be adopted		

Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
	b) The above rates are applicable with cement @ rate of Rs.4,000/-MT and steel of Rs. 46,500/MT.		
	c)The above rates shall be increased / decreased due to increase / decrease in the cost of cement by Basic Rate x (Rc-4000) x 0.00007 Rc = Rate of cement (Rs per Mt) at the time of preparation of estimate		
	d)The above rates shall be increased / decreased due to increase / decrease in the cost of steel by Basic Rate x (RS-46500) x 0.00002 Rs = Rate of steel (Rs per Mt) at the time of preparation of estimate.		
	e) For Rural areas an extra allowance of 10% shall be given on basic rate		
	The components of the filtration plant will include the following		
	A) Civil Works (All works of VRCC Shall be in M30 design mix)		
	1). Stilling Chamber and Aeration cascade		
	2). Raw water channel with Stainless Steel Weir of SS304L Grade material and also with digital flow meters		
	3) Flash Mixer chamber with Flash mixing arrangements including SS shaft & SS Blades with gear wheel arrangements etc, Using 304L Grade Steel.		
	4) Clarifluculator / Flocculation tanks with the components of central driven circular clarifier with scrapper & bridge arrangements made with Stainless Steel Grade 304 L tubes /angulars for durability & chemical resistant with wheel arrangements etc.,		
	5) Filter house, Chemical house, Alum store, Laboratory room , Chlorination plant room, toilet etc. (All structures shall be provided RCC roof only).Chemical house & Chlorinator rooms are to be isolated.		
	6) Wash water tank of suitable capacity shall be constructed at minimum clearance of 2.00m, above the roof slab of Filter beds / any other structure.		
	7) All the Doors and Windows shall be of Best Teak wood/Aluminium / UPVC make, except entrance door. The entrance door including shutter in filter house shall be with best teak wood of size of 2.40 X 2.40 mts. a) Main Doors of the individual Buidings shall be made of Best Teak wood b) Other Internal Doors of the buildings shall be of Compresed wood/ Aluminium/ UPVC materials. c) Ventilators shall be provided for each building/structure of suitable size as per NBC statndards.		

Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
	8) All pipes and valves in Plant shall be of D.I. materials. All the Connecting pipes of the plant components such as from Flash mixer to Clarifloculator/ Clarifier/Flocculation tank, to Filter beds, sludge disposal pipes shall be of D.I. material. The size of sludge disposal pipe shall be minimum of 450 mm dia with D.I D/F pipe.		
	9) The Pipe gallery way for Clear water/ Back wash water/ pipe connections shall be sufficiently spaced for easy operation & maintenance and inspection.		
	10) The bottom level of the wash water control chamber must be above G.L so as to dispose the wash water and sludge from Clarifloculator by gravity to disposal point.		
	Additional specifications		
	11) Railing for all the components (Clarifloculator, Filter House, Staircase etc.,) shall be provided with Stainless Steel of grade 304 for a height of 1.00m, with 40mm dia pipe for top horizontals, 25mm dia for middle row and 40mm dia verticals spaced at interval of not more than 1.00m c/c.		
	12) Inspection / Path ways in filter beds : Middle pathway: Minimum of 1.50m, Side pathway: Minimum of 1.20m.		
	13) Flooring in the buildings (Filter house, Chemical House, Chlorinator Room, Laboratory) shall be provided with Non-skid tiles of approved make.		
	14) The basement of the Filtration plant building shall be minimum of 1.20m above the existing nearby Road top level.		
	15) Minimum head room of 2.00m shall be provided, at the alum mixing chambers in alum store for inspection & maintenance		
	16) The minimum width of entrance hall for the Filter House shall be 4.50m, and Laboratory, of min size .of 3.30 X 4.50m .		
	17) High efficient Air Blowers shall be installed to the design requirement with low noise pollution, environmental pollution as per PCB guide lines & Testing of blowers as per I.S norms at site.		
	18) UPVC pipes shall be provided for water drain. Filter pipe manifolds shall be assembled with HDPE pipes.		
	19) Alum storage capacity shall be designed for minimum period of 90 days. Consumables shall be provided for 2115 Running Hours of WTP.		
	20) <b>Chlorinator</b> : Vacuum type chlorinator shall be provided with following specifications: a) Vacuum operated solution feeding type Vacuum Regulator, Rotometer, Rate setting Valve, built-in NRV, Gas Overflow out let by manifolding to mount the system with the unit. b) The unit shall consist of Ejector with necessary accessories such as Check Valve, Drain Valve and Vacuum relief Valves - for control of chlorinator dosage. c) The Accessories and manifolds shall be chlorine resistant and made of carbon steel seam less pipes, copper tube with brass fittings of suitable size & dimensions, with diaphragm sealed chlorine pressure gauge arrangements		

Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
	<p>d) Water Boosted Pump of pumping capacity ranging from 2 cum/hr to 12 cum/hr, with Head ranging from 16 to 35 MWC</p> <p>e) The water &amp; solution carrying pipes shall be made of UPVC material of suitable size incl.all specials such as Tee's , Bends, couplings &amp; NRVs and also Pressure Gauges of suitable range.</p> <p>f) Chlorine Gas detector with alarm indicator.</p> <p>The installation includes all necessary accssories, civil and mechanical works, manifold header installations, injector fixing, connection with UPVC pipes, solution pipings, fixing of motors as per standard speicfications and commissioning of Cholirnation Plant to the required demand, with a deffect liability period of 1 year.</p> <p>The cholrinator of may be of any reupted make or any make of Metito/Toshocow-Jesco/ Industrial devices.</p> <p>g)Life breathing operators.</p> <p>h)Chlorine escape BA Set.</p>		
	i) 2 to 10 MLD Plants - 1Kg/hr Chlorinator for Post Chlorination		
	ii) 10 MLD to 20 MLD Plants - 2 Kg/hr Chlorinator for Post Chlorination.		
	iii) 20 MLD to 50 MLD Plants - 5 Kg/hr Chlorinator for Post Chlorination.		
	<b>B) Mechanical Equipment</b>		
	1) Alum dosing equipment with SS 304 material made stirrers & paddles for chemical resistance. (Alam tanks must be bound with corrosion resistant material (HDPE Lining, Bitumen Coating, tiles etc)		
	2) Flash mixer equipment with SS 304 material made stirrers & paddles for chemical resistance.		
	3) Filtration plant euqipment instrumentation and piping.		
	4) Clarifloccualation equipment (with stainless steel blades) with rotating bridge arrangeemnt etc.,		
	5) Pneumatic tyre wheel shall be provided for the bridge clariflocculator.		
	6) Wash water tank fittings and pumpsets with 100% stand by.		
	7)Air blower with motor 100% stand by and pipe connections made with of SS Pipes Confirming to SS304 Grade, in filter bed region.		
	8)Spares & Tools for 2 years		
	9) Gaseous Chlorination with cylinders has to provided with protection measures.		
	<b>C) Electrical Equipment</b>		
	1) Necessary power supply wiring to motors and switches bus bar connections as per IE Rules		
	2) Internal wiring and illumination and fittings and fixtures for internal and external lighting exhaust fans, ceiling fans etc.		
	3) Erecting mechanical and electrical equipment, trial run for 90 days 23.50 hours per day ttesting the treated water for efficient stardards and maintenance of records and imparting training to staff.		

Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
	4) Supply of 6 - Sets of completion plans and maintenance manual and brochures.		
	5) All cables shall be with of copper material, Cable ducts shall be covered with MS / Aluminum chequed plate.		
	6) Min LUX levels inside the treatment plant shall be maintained.		
	7) Yard lighting shall be provided as per norms.		
	<b>D ) Equipment for Flow measurements</b>		
	1) Equipment for Flow of Conductivity, Turbidity, Ph value, Residual Chlorine with recording & data storage facility (Computer based) & Alarm by SMS or other methods.		
	2) Off - Site Supervisory and Data Acquisition (OSSADA) system for Raw water & Clear water flows by installing Digital Flow meters to measure the flows at Raw water Channel and at each filter bed individually and combined for measuring the quantities of water treated with a facility to record and store the readings & also to send messages to the assigned designatories about the variations/ defficiencies in the flow including alerts for back wash requirements of filter beds, and recovery of data for the past 360 days. All the Digital Flow Meters & Pressure Gauges shall be provided of standard approved make. The equipment shall have the following specifications, but not limited to:		
	<b>Hardware:</b>		
	i) Wall mounted Sensor House for measuring Raw water & Clear water flow from Filter bed out lets with accessories consists of		
	ii)Electrode Type: General type, Scraper type or replaceable type Electorde made with material of SS external Ultra Touch Sensors as per requirement.		
	iii)Customised Application Requirement : Sensors with Interface logic control board with serial interfaces, including accessories such as Add-on port, external DC Power Socket, On - sensor Board Buffer, Timer, RS485 Communication, Analog to Digital Sensing Sensor Circuit, 32 Sensors Sensing Tags, Interval Power Supply System , LCD 16c/2L, Filter Bed Working Status Indication LED, Filter Bed Wash Indication Button and memory of Data Storage for 30Days , status of Filter Bed Level indicator, Rating, Reading on LCB Display, Menu Driven Data for sending to Onsite Big Display, operated with Battery Power of any reputed make or any equalent make.		
	iv)Customised Application Requirement: Power Sensors Interface logic control board with support 8 Power Sensing tags, Central System Interfacing Communication, On - board analog to Digit Convert Integrate Circuit of any reputed make or any equalent make.		

Sl. No.	Description	Unit	SoR for 2014-15
1	2	3	4
	v) Customised Application Requirement: Centralized System with two serial interfaces, 3 Nos of Add-On ports, One external DC Power Socket, On - Board Buffer, On - Board Timer, On - Board RS485 Communication, On - Board RS 232 Communication, On - Board GPRS/GSM Module, On - Board Voice Chip, On - Board Power Sensing Module, LCD 16c/2L, Filter Bed Wash Precaution Indication with Stop Button, Memory of Data Storage for 30 Days, Total Bed Rating, Reading display on LCD Display, Menu Driven, Menu Navigate Keypad, sending data to the Web Server, Communication with GPRS , operated with Battery Power of any reputed make or any equivalent make.		
	<b>Software:</b>		
	The software shall be designed with Web Domain with Data Base Server and Web Name as per the directions of the Departmental Authorities		
	The application of Software for Web design & Desktop shall meet the following requirements:		
	Onsite Display: Letters with size of 1.5' seven Sigmoid LED Display with Interface for each Filter Bed, for Onsite Display, by displaying the Bed Levels, Ratings, Readings in 3 Columns , for each bed of the plant in successive rows and cumulative results at the bottom of the screen.		
	Off Site Display: Letters with size of 1.5' seven Sigmoid LED Display with Interface GPRS/GSM Modules Offsite Display, with Display of Bed Total Rating, Total Cumulative Reading as specified on On-site Display Features.		
	The system shall have also the features of Onsite Bed Wash Voice Precautions for Bed Levels, Readings, Ratings, Bed Capacity Readings and Ratings and Bed Low Level Triggering, before & after Bed wash.		
	The software shall also have the features of sending messages to the mobiles of the Departmental designatories indicating Bed Low Levels, Power Supply timings, Bed Wash timings and its status, Power Supply timings and its status Grid View Table, Motor Working time and its status Grid View Table, all trigger events and schedule information and including all Snap View Reports, all Daily, Monthly, Yearly Reports, all Power Working Reports, all Power Events Information etc.,		



**1. S o R FOR R.C.C. PLAIN ENDED PIPES**

Sl. No.	Description				
<b>1</b>	<b>2</b>				
<b>1</b>	<b>Manufacture, Supply and Delivery of R.C.C. Plain ended pipes conforming to B.I.S 458/2003 , Ex-factory, Excluding transportation, taxes &amp; duties</b>				
	Size	Unit	SoR For 2014-15		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Metre	<b>133</b>		
	100 mm dia	Metre	<b>154</b>		
	150 mm dia	Metre	<b>183</b>		
	200 mm dia	Metre	<b>217</b>		
	225 mm dia	Metre	<b>236</b>		
	250 mm dia	Metre	<b>252</b>		
	300 mm dia	Metre	<b>361</b>	<b>824</b>	<b>845</b>
	350 mm dia	Metre	<b>450</b>	<b>1015</b>	<b>1035</b>
	400 mm dia	Metre	<b>519</b>	<b>1121</b>	<b>1147</b>
	450 mm dia	Metre	<b>635</b>	<b>1284</b>	<b>1297</b>
	500 mm dia	Metre	<b>697</b>	<b>1395</b>	<b>1604</b>
	600 mm dia	Metre	<b>1032</b>	<b>2099</b>	<b>2490</b>
	700 mm dia	Metre	<b>1321</b>	<b>2609</b>	<b>3338</b>
	800 mm dia	Metre	<b>1625</b>	<b>3447</b>	<b>4361</b>
	900 mm dia	Metre	<b>2046</b>	<b>4331</b>	<b>5433</b>
	1000 mm dia	Metre	<b>2489</b>	<b>5379</b>	<b>7428</b>
	1100 mm dia	Metre	<b>2951</b>	<b>6347</b>	<b>8611</b>
	1200 mm dia	Metre	<b>3515</b>	<b>7477</b>	<b>10068</b>
	1400 mm dia	Metre	<b>4791</b>	<b>9660</b>	<b>13928</b>
	1600 mm dia	Metre	<b>5549</b>	<b>12540</b>	<b>16750</b>
	1800 mm dia	Metre	<b>7277</b>	<b>16630</b>	<b>22466</b>

Note : All the prices are ex-works. Excise duty, CST/VAT extra as applicable at the time of supply.

The above rates of RCC Plain ended pipes are based on the following raw materials cost.

Cement. Rs.4,000/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.41,000/- per MT. (including all taxes and freight).

The revised cost of RCC pipes due to increase / decrease in the cost of raw materials shall be as per the following formula.

Revised Cost = Cost as per the above table + R1 + R2

R1 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of M.S. Rods =  $(S2 - S1) / 1000 \times Ws$ .

R2 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of Cement =  $(C2 - C1) / 1000 \times Wc$ .

S1 = Rs. 41,000/- , S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 4,000/- C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

Ws = Weight of MS Rods required (Kg.) per metre of pipe as per IS:458/2003.

Wc = Weight of Cement required (Kg.) per metre of pipe.

## 2. S o R FOR R.C.C. COLLARS

Sl.No.	Description				
<b>1</b>	<b>2</b>				
<b>1</b>	<b>Manufacture, Supply and Delivery of R.C.C. Collars conforming to B.I.S. 458/2003 (rate per each collar) suitable for R.C.C. Plain ended pipes including transportation but excluding taxes &amp; duties</b>				
	Size	Unit	SoR For 2014-15		
			NP - 2 Class	NP - 3 Class	NP - 4 Class
	80 mm dia	Each	41		
	100 mm dia	Each	42		
	150 mm dia	Each	44		
	200 mm dia	Each	59		
	225 mm dia	Each	62		
	250 mm dia	Each	68		
	300 mm dia	Each	90	129	129
	350 mm dia	Each	111	160	160
	400 mm dia	Each	123	183	183
	450 mm dia	Each	193	243	243
	500 mm dia	Each	219	289	289
	600 mm dia	Each	297	379	379
	700 mm dia	Each	386	510	510
	800 mm dia	Each	545	649	649
	900 mm dia	Each	652	756	756
	1000 mm dia	Each	761	945	945
	1100 mm dia	Each	932	1197	1197
	1200 mm dia	Each	1133	1499	1499
	1400 mm dia	Each	1461	1898	1898
	1600 mm dia	Each	1865	2434	2434
	1800 mm dia	Each	1932	3136	3136

Note: Excise duty, CST/VAT extra as applicable at the time of supply.

The above rates of RCC Collars suitable to plain ended pipes are based on the following raw materials cost.

Cement. Rs.4,000/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.41,000/- per MT. (including all taxes and freight).

The revised cost of RCC collars due to increase / decrease in the cost of raw materials shall be as per the following formula.

Revised Cost = Cost as per the above table + R1 + R2

R1 = Variation (increase / decrease) in cost (Rs. per each) due to change in the cost of M.S.

Rods =  $(S2 - S1) / 1000 \times Ws$ . R2 = Variation (increase / decrease) in cost (Rs. per each) due to change in the cost of Cement =  $(C2 - C1) / 1000 \times Wc$ .

S1 = Rs. 41,000/-, S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 4,000/-, C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

Ws = Weight of MS Rods required (Kg.) per each collar.

Wc = Weight of Cement required (Kg.) per each collar.

### 3. S o R FOR R.C.C. S/S PIPES (Non - Pressure)

Sl. No.	Description				
1	2				
1	<b>Manufacture, Supply and Delivery of R.C.C. Socket and Spigot pipes conforming to B.I.S. 458/2003 at ex-factory (rate per meter of effective length) Excluding transportation, taxes &amp; duties.</b>				
	<b>Size</b>	<b>Unit</b>	<b>SoR For 2014-15</b>		
			<b>NP - 2 Class</b>	<b>NP - 3 Class</b>	<b>NP - 4 Class</b>
	80 mm dia	Metre	<b>165</b>		
	100 mm dia	Metre	<b>187</b>		
	150 mm dia	Metre	<b>218</b>		
	200 mm dia	Metre	<b>266</b>		
	225 mm dia	Metre	<b>290</b>		
	250 mm dia	Metre	<b>310</b>		
	300 mm dia	Metre	<b>435</b>	<b>1049</b>	<b>1116</b>
	350 mm dia	Metre	<b>559</b>	<b>1337</b>	<b>1359</b>
	400 mm dia	Metre	<b>617</b>	<b>1482</b>	<b>1507</b>
	450 mm dia	Metre	<b>768</b>	<b>1635</b>	<b>1647</b>
	500 mm dia	Metre	<b>885</b>	<b>1870</b>	<b>2032</b>
	600 mm dia	Metre	<b>1245</b>	<b>2623</b>	<b>2695</b>
	700 mm dia	Metre	<b>1615</b>	<b>3348</b>	<b>3505</b>
	800 mm dia	Metre	<b>2072</b>	<b>4432</b>	<b>4577</b>
	900 mm dia	Metre	<b>2618</b>	<b>5571</b>	<b>5755</b>
	1000 mm dia	Metre	<b>3180</b>	<b>6297</b>	<b>6859</b>
	1100 mm dia	Metre	<b>3729</b>	<b>7433</b>	<b>7923</b>
	1200 mm dia	Metre	<b>4226</b>	<b>8772</b>	<b>9274</b>
	1400 mm dia	Metre	<b>6017</b>	<b>11616</b>	<b>13152</b>
	1600 mm dia	Metre	<b>7443</b>	<b>15084</b>	<b>15832</b>
	1800 mm dia	Metre	<b>8364</b>	<b>19999</b>	<b>21243</b>

Note: All the prices are ex-works, Excise duty, CST/VAT extra as applicable at the time of supply. The above rates of RCC S/S Non-Pressure pipes are based on the following raw materials cost.

Cement. Rs.4,000/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.41,000/- per MT. (including all taxes and freight).

The revised cost of RCC pipes due to increase / decrease in the cost of raw materials shall be as per the following formula.

Revised Cost = Cost as per the above table +R1+R2

R1= Variation (increase / decrease ) in cost (Rs. per metre )due to change in the cost of M.S. Rods =(S2-S1)/1000 X Ws.

R2= Variation (increase / decrease ) in cost (Rs. per metre )due to change in the cost of Cement =(C2-C1)/1000 X Wc.

S1 = Rs. 41,000/- , S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 4,000/- , C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

Ws=Weight of MS Rods required (Kg.) per metre of pipe as per IS:458/2003.

Wc= Weight of Cement required (Kg.) per metre of pipe.

#### 4. S o R FOR R.C.C. S/S PIPES (Pressure)

Sl.No.	Description				
1	2				
1	<b>Manufacture, Supply and Delivery of R.C.C. Socket and Spigot pipes conforming to B.I.S. 458/2003 Ex-factory (rate per meter of effective length) Excluding transportation, taxes &amp; duties.</b>				
	Size	Unit	SoR For 2014-15		
			P1 - Class	P2 - Class	P3 - Class
	80 mm dia	Metre	216	244	277
	100 mm dia	Metre	244	292	337
	150 mm dia	Metre	336	435	537
	200 mm dia	Metre	391	561	741
	225 mm dia	Metre	440	638	826
	250 mm dia	Metre	482	683	868
	300 mm dia	Metre	650	984	1227
	350 mm dia	Metre	810	1366	1769
	400 mm dia	Metre	962	1808	2335
	450 mm dia	Metre	1030	2143	2879
	500 mm dia	Metre	1367	2333	3277
	600 mm dia	Metre	1872	3477	4557
	700 mm dia	Metre	2493	4590	5797
	800 mm dia	Metre	3122	5471	7022
	900 mm dia	Metre	3768	6446	
	1000 mm dia	Metre	4750	7411	
	1100 mm dia	Metre	5700		
	1200 mm dia	Metre	6689		

Note: All the prices are ex-works, Excise duty, CST/VAT extra as applicable at the time of supply.

The above rates of RCC S/S Pressure pipes are based on the following raw materials cost.

Cement. Rs.4,000/- per MT (including all taxes and freight).

Steel (M.S. Rods) - Rs.41,000/- per MT. (including all taxes and freight).

The revised cost of RCC pipes due to increase / decrease in the cost of raw materials shall be as per the following formula.

Revised Cost = Cost as per the above table + R1 + R2

R1 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of M.S. Rods =  $(S2 - S1) / 1000 \times Ws$ .

R2 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of Cement =  $(C2 - C1) / 1000 \times Wc$ .

S1 = Rs. 41,000/-

S2 = Cost of M S Rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 4,000/-, C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

Ws = Weight of MS Rods required (Kg) per metre of pipe as per IS: 458 / 2003.

Wc = Weight of Cement required (Kg) per metre of pipe.

**5. S o R FOR RUBBER RINGS TO SUIT R.C.C. S/S PIPES**

Sl. No.	Description				
<b>1</b>	<b>2</b>				
<b>1</b>	<b>Manufacture, Supply and Delivery of Rubber rings to suit R.C.C. Socket and Spigot pipes conforming to B.I.S 5382/ 1985 (rate per each rubber ring) including transportation but excluding taxes &amp; duties. the Rubber Rings shall be tested at the factory premises confirming to B.I.S. 5382/1985.</b>				
	<b>Size</b>	<b>Unit</b>	<b>SoR For 2014-15</b>		
			<b>NP - 2 Class</b>	<b>NP - 3 Class</b>	<b>NP - 4 Class</b>
	80 mm dia	Each	26		
	100 mm dia	Each	32		
	150 mm dia	Each	57		
	200 mm dia	Each	67		
	225 mm dia	Each	74		
	250 mm dia	Each	83		
	300 mm dia	Each	101	130	130
	350 mm dia	Each	117	155	155
	400 mm dia	Each	129	176	176
	450 mm dia	Each	146	200	200
	500 mm dia	Each	191	229	229
	600 mm dia	Each	251	333	333
	700 mm dia	Each	341	398	398
	800 mm dia	Each	433	483	483
	900 mm dia	Each	542	653	653
	1000 mm dia	Each	634	788	788
	1100 mm dia	Each	762	1009	1009
	1200 mm dia	Each	1220	1268	1268
	1400 mm dia	Each	1342	1395	1395
	1600 mm dia	Each	1671	1703	1703
	1800 mm dia	Each	2081	2175	2175
<b>2</b>	<b>Manufacture, Supply and Delivery of Rubber rings to suit R.C.C. Socket and Spigot pipes conforming to B.I.S 5382/ 1985 (rate per each rubber ring) including transportation but excluding taxes &amp; duties. The Rubber Rings shall be tested at the factory premises confirming to B.I.S. 5382/1985.</b>				
	<b>Size</b>		<b>P1 - Class</b>	<b>P2 - Class</b>	<b>P3 - Class</b>
	80 mm dia	Each	26	26	26
	100 mm dia	Each	32	34	34
	150 mm dia	Each	57	57	57
	200 mm dia	Each	67	67	67
	225 mm dia	Each	74	75	77
	250 mm dia	Each	83	85	87
	300 mm dia	Each	101	107	111
	350 mm dia	Each	117	134	146
	400 mm dia	Each	129	176	180

	<b>Size</b>		<b>P1 - Class</b>	<b>P2 - Class</b>	<b>P3 - Class</b>
	450 mm dia	Each	<b>146</b>	<b>202</b>	<b>207</b>
	500 mm dia	Each	<b>191</b>	<b>229</b>	<b>239</b>
	600 mm dia	Each	<b>251</b>	<b>283</b>	<b>288</b>
	700 mm dia	Each	<b>341</b>	<b>374</b>	<b>398</b>
	800 mm dia	Each	<b>433</b>	<b>479</b>	<b>479</b>
	900 mm dia	Each	<b>542</b>	<b>604</b>	
	1000 mm dia	Each	<b>634</b>	<b>729</b>	
	1100 mm dia	Each	<b>762</b>		
	1200 mm dia	Each	<b>1220</b>		

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**6. S o R FOR CONVEYANCE OF R.C.C. PLAIN ENDED PIPES**

<b>Sl.No.</b>	<b>Description</b>	<b>Rate upto 5 Kms Lead including Loading, unloading and stacking</b>	<b>Rate for every additional 1 KM lead or part thereof.</b>	<b>Rate upto 5 Kms Lead including Loading, unloading and stacking</b>	<b>Rate for every additional 1 KM lead or part thereof.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>1</b>	<b>Conveyance of R.C.C plain ended pipes on all weathered roads including loading, unloading and stacking (per metre) SoR for 2014-15</b>				
		<b>NP - 2 Class</b>		<b>NP - 3 Class &amp; NP - 4 Class</b>	
	80 mm dia	<b>3.00</b>	<b>0.13</b>		
	100 mm dia	<b>4.00</b>	<b>0.13</b>		
	150 mm dia	<b>6.00</b>	<b>0.26</b>		
	200 mm dia	<b>8.00</b>	<b>0.26</b>		
	225 mm dia	<b>9.00</b>	<b>0.40</b>		
	250 mm dia	<b>10.00</b>	<b>0.40</b>		
	300 mm dia	<b>14.00</b>	<b>0.53</b>	<b>39.00</b>	<b>1.07</b>
	350 mm dia	<b>20.00</b>	<b>1.20</b>	<b>42.00</b>	<b>1.20</b>
	400 mm dia	<b>22.00</b>	<b>1.33</b>	<b>50.00</b>	<b>1.60</b>
	450 mm dia	<b>29.00</b>	<b>1.60</b>	<b>54.00</b>	<b>1.86</b>
	500 mm dia	<b>31.00</b>	<b>1.86</b>	<b>59.00</b>	<b>1.86</b>
	600 mm dia	<b>45.00</b>	<b>2.93</b>	<b>89.00</b>	<b>4.13</b>
	700 mm dia	<b>57.00</b>	<b>4.13</b>	<b>99.00</b>	<b>4.80</b>
	800 mm dia	<b>67.00</b>	<b>4.13</b>	<b>119.00</b>	<b>4.80</b>
	900 mm dia	<b>77.00</b>	<b>4.13</b>	<b>156.00</b>	<b>9.05</b>
	1000 mm dia	<b>114.00</b>	<b>8.51</b>	<b>188.00</b>	<b>9.05</b>
	1100 mm dia	<b>125.00</b>	<b>8.51</b>	<b>204.00</b>	<b>9.85</b>
	1200 mm dia	<b>142.00</b>	<b>9.05</b>	<b>228.00</b>	<b>9.85</b>
	1400 mm dia	<b>171.00</b>	<b>9.05</b>	<b>310.00</b>	<b>10.25</b>
	1600 mm dia	<b>198.00</b>	<b>9.05</b>	<b>372.00</b>	<b>10.25</b>
	1800 mm dia	<b>228.00</b>	<b>9.05</b>	<b>496.00</b>	<b>14.38</b>

**7. S o R FOR CONVEYANCE OF R.C.C. S/S PIPES**

Sl.No.	Description	Rate upto 5 Kms Lead including Loading, unloading & stacking	Rate for every additional 1 KM lead or part thereof.	Rate upto 5 Kms Lead including Loading, unloading and stacking	Rate for every additional 1 KM lead or part thereof.
1	2	3	4	5	6
1	<b>Conveyance of R.C.C. Socket and Spigot pipes on all weather roads including loading, unloading and stacking (per metre of effective length) SoR for 2014-15</b>				
	<b>Size</b>	<b>NP - 2 &amp; P1 Class</b>		<b>NP - 3 &amp; NP - 4 Class</b>	
	80 mm dia	4.00	0.12		
	100 mm dia	4.00	0.24		
	150 mm dia	7.00	0.24		
	200 mm dia	9.00	0.48		
	225 mm dia	10.00	0.48		
	250 mm dia	11.00	1.09		
	300 mm dia	18.00	1.21	46.00	1.45
	350 mm dia	21.00	1.33	50.00	1.69
	400 mm dia	21.00	1.57	62.00	3.15
	450 mm dia	30.00	1.69	68.00	3.15
	500 mm dia	33.00	1.82	75.00	3.39
	600 mm dia	43.00	3.15	101.00	4.84
	700 mm dia	53.00	3.39	136.00	9.56
	800 mm dia	73.00	5.20	161.00	9.56
	900 mm dia	109.00	9.32	186.00	9.56
	1000 mm dia	124.00	9.32	196.00	9.56
	1100 mm dia	140.00	9.56	210.00	9.56
	1200 mm dia	156.00	9.56	235.00	9.80
	1400 mm dia	194.00	9.56	315.00	9.80
	1600 mm dia	230.00	9.80	372.00	10.53
	1800 mm dia	285.00	9.80	496.00	14.40
		<b>P2 - Class</b>		<b>P3 - Class</b>	
	80 mm dia	4.00	0.12	4.00	0.12
	100 mm dia	4.00	0.24	4.00	0.24
	150 mm dia	7.00	0.24	7.00	0.24
	200 mm dia	9.00	0.48	12.00	1.09
	225 mm dia	12.00	1.09	14.00	1.21
	250 mm dia	13.00	1.21	17.00	1.33
	300 mm dia	25.00	1.45	29.00	1.57
	350 mm dia	31.00	1.69	40.00	1.82
	400 mm dia	37.00	1.82	53.00	3.15
	450 mm dia	47.00	3.03	66.00	3.15
	500 mm dia	53.00	3.15	80.00	4.72
	600 mm dia	70.00	3.15	116.00	6.05
	700 mm dia	105.00	6.41	169.00	9.56
	800 mm dia	139.00	9.08	216.00	9.56
	900 mm dia	169.00	9.56		
	1000 mm dia	208.00	9.80		



**8. S o R FOR A.C. PIPES**

Sl.No	Description				
<b>1</b>	<b>Manufacture, Supply of A.C. Pressure pipes (mazza process) as per BIS No: 1592/2003 as amended from time to time duly marked with BIS mark, including cost of material, incidental handling, loading and packing charges but are exclusive of transportation, unloading, stacking at departmental stores, and excluding excise duty, VAT octroi and other govt. Levies. The pipes shall be tested at factory premises confirming to is code 1592/2003.</b>				
	<b>Size</b>	<b>Unit</b>	<b>SoR For 2014-15</b>		
			<b>Class - 15</b>	<b>Class - 20</b>	<b>Class - 25</b>
	80 mm dia	Rate/Metre	185	203	253
	100 mm dia	Rate/Metre	244	310	381
	125 mm dia	Rate/Metre	318	396	497
	150 mm dia	Rate/Metre	447	557	700
	200 mm dia	Rate/Metre	741	948	1203
	250 mm dia	Rate/Metre	939	1218	1525
	300 mm dia	Rate/Metre	1314	1712	2187
	350 mm dia	Rate/Metre	1602	2082	2625
	400 mm dia	Rate/Metre	2082	2723	3380
	450 mm dia	Rate/Metre	2472	3281	4108
	500 mm dia	Rate/Metre	3051	4012	5037
	600 mm dia	Rate/Metre	4339	5666	7220
	700 mm dia	Rate/Metre	5728	7770	10047
	750 mm dia	Rate/Metre	6528	8969	11496
	800 mm dia	Rate/Metre	7469	10162	13042
	850 mm dia	Rate/Metre	8378	11432	14686
	900 mm dia	Rate/Metre	9340	12772	16427
	1000 mm dia	Rate/Metre	11530	15680	20201
<b>2</b>	<b>Lowering, laying and jointing of ac pressure pipes with ac couplings or CID joints complete with Rubber rings in readymade trenches true to alignment and gradient including filling with water lead upto 500 mts and testing to required pressure including all sundries but excluding cost of jointing materials and conveyance from source of supply as per BIS No. 6530/1972</b>				
	80 mm dia	Rate/Metre	35.00	35.00	35.00
	100 mm dia	Rate/Metre	52.00	52.00	52.00
	125 mm dia	Rate/Metre	57.00	57.00	57.00
	150 mm dia	Rate/Metre	68.00	68.00	68.00
	200 mm dia	Rate/Metre	89.00	89.00	89.00
	250 mm dia	Rate/Metre	107.00	107.00	107.00
	300 mm dia	Rate/Metre	132.00	132.00	132.00
	350 mm dia	Rate/Metre	224.00	224.00	224.00
	400 mm dia	Rate/Metre	336.00	336.00	336.00
	450 mm dia	Rate/Metre	409.00	409.00	409.00
	500 mm dia	Rate/Metre	520.00	520.00	520.00
	600 mm dia	Rate/Metre	559.00	559.00	559.00
	700 mm dia	Rate/Metre	624.00	624.00	624.00
	750 mm dia	Rate/Metre	694.00	694.00	694.00
	800 mm dia	Rate/Metre	730.00	730.00	730.00
	850 mm dia	Rate/Metre	779.00	779.00	779.00

	900 mm dia	Rate/Metre		<b>850.00</b>	<b>850.00</b>	<b>850.00</b>
	1000 mm dia	Rate/Metre		<b>875.00</b>	<b>875.00</b>	<b>875.00</b>
	<p>1. The above rates of AC Pipes are based on the Cement cost of RS 4,000/- per MT (Including all taxes and freight).</p> <p>2. The above rates of AC pipes are based on the Fiber cost of Rs 76,000/- per M.T (Excluding all taxes &amp; Frieght)</p> <p>For any Increase/ Decrease in the rate of cement, the price of AC pipe per Rmt shall be increased/decreased as under.</p> <p><math>W \times 0.85 \times IC</math> Where W = Weight of pipe in Kg's/Rmt  IC = Increase/Decrease in cost of cement/Kg</p> <p>For any increase/decrease in the rate of fiber, the price of AC pipe per Rmt shall be increased/Decreased as under :</p> <p><math>W \times 0.15 \times IF</math> Where : W=: Weight of pipe in Kg's/Rmt  IF = Increase /Decrease in cost of fiber/Kg</p>					
<b>Note:</b>	<p>1) The Fiber rates are to be obtained from A.C. Pipe manufacturer of "Mazza" process.</p> <p>2) The cement rate shall be communicated by the sub-committee of Board of Chief engineers.</p> <p>3)The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate</p>					
2	Transportation of AC pressure pipes at site of work anywhere in Andhra Pradesh on motor able roads for full truck loads including transit insurance, unloading, and stacking at site of work etc. Complete (AC Couplings and Rubber rings are to be supplied free of transportation charges).				10% on the basic cost of corresponding AC Pressure pipes.	

### 9. S o R FOR A.C. COUPLINGS

Sl. No.	Description					
1	2					
1	<b>Manufacture, Supply of A.C Couplings suitable to A.C.Pressure pipes (mazza process) as per BIS: 1592/2003 excluding cost of rubber rings to suit AC pressure pipes including cost of material, incidental handling, packing, transportation and unloading at site transit risk, but excluding excise duty, VAT and other govt. Levies and testing of joints as per IS Code.</b>					
	Size	Unit	SoR For 2014-15			
0			Class - 15	Class - 20	Class - 25	
	80 mm dia	Rate/Each	88	95	109	
	100 mm dia	Rate/Each	114	123	148	
	125 mm dia	Rate/Each	143	158	190	
	150 mm dia	Rate/Each	167	209	258	
	200 mm dia	Rate/Each	307	336	428	
	250 mm dia	Rate/Each	359	453	576	
	300 mm dia	Rate/Each	468	607	781	
	350 mm dia	Rate/Each	607	784	1001	
	400 mm dia	Rate/Each	935	1221	1563	
	450 mm dia	Rate/Each	1120	1476	1895	
	500 mm dia	Rate/Each	1335	1785	2280	
	600 mm dia	Rate/Each	1640	2059	2634	
	<b>700 mm dia</b>	Rate/Each	<b>2164</b>	<b>2913</b>	<b>3788</b>	
	<b>750 mm dia</b>	Rate/Each	<b>2441</b>	<b>3337</b>	<b>4307</b>	
	<b>800 mm dia</b>	Rate/Each	<b>2769</b>	<b>3755</b>	<b>4859</b>	
	<b>850 mm dia</b>	Rate/Each	<b>3085</b>	<b>4200</b>	<b>5446</b>	
	<b>900 mm dia</b>	Rate/Each	<b>3414</b>	<b>4669</b>	<b>6062</b>	
	<b>1000 mm dia</b>	Rate/Each	<b>4166</b>	<b>5677</b>	<b>7399</b>	

1. The above rates of AC Coupling are based on the Cement cost of RS 4,000/- per MT (Including all taxes and freight).

2. The above rates of AC Coupling are based on the Fiber cost of Rs 76,000/- per M.T (Excluding all taxes & Frieght)

For any Increase/ Decrease in the rate of cement, the price of AC Coupling per Each shall be increased/decreased as under.

$W \times 0.85 \times IC$  Where W = Weight of Coupling in Kgs/Each

IC = Increase/Decrease in cost of cement/kg

For any increase/decrease in the rate of fiber, the price of AC Coupling per Each shall be increased/Decreased as under :

$W \times 0.15 \times IF$  Where : W=: Weight of Coupling in Kgs/Each

IF = Increase /Decrease in cost of fiber/kg

The Fiber rates are to be obtained from A.C. Pipe manufacturer of “Mazza” process.

The cement rate shall be communicated by the sub-committee of Board of Chief engineers.

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**10. S o R FOR RUBBER RINGS TO SUIT A.C. COUPLINGS**

Sl. No.	Description					
1	2					
1	<b>Schedule of rate for supply of Rubber rings manufactured as per BIS: 5382/1988 with BIS Mark embossed per each set suitable for A.C. Couplings including cost of material, incidental, handling, packing, transportation and unloading at site transit risk etc., but excluding VAT. The Rubber Rings shall be tested at the factory premises confirming to B.I.S 5382/1988</b>					
	Size	Unit	SoR For 2014-15			
			Class - 15	Class - 20	Class - 25	
	80 mm dia	Each Set	<b>68.00</b>	<b>68.00</b>	<b>68.00</b>	
	100 mm dia	Each Set	<b>83.00</b>	<b>83.00</b>	<b>83.00</b>	
	125 mm dia	Each Set	<b>108.00</b>	<b>108.00</b>	<b>108.00</b>	
	150 mm dia	Each Set	<b>136.00</b>	<b>136.00</b>	<b>136.00</b>	
	200 mm dia	Each Set	<b>142.00</b>	<b>142.00</b>	<b>142.00</b>	
	250 mm dia	Each Set	<b>164.00</b>	<b>164.00</b>	<b>164.00</b>	
	300 mm dia	Each Set	<b>164.00</b>	<b>164.00</b>	<b>164.00</b>	
	350 mm dia	Each Set	<b>186.00</b>	<b>186.00</b>	<b>186.00</b>	
	400 mm dia	Each Set	<b>228.00</b>	<b>228.00</b>	<b>228.00</b>	
	450 mm dia	Each Set	<b>267.00</b>	<b>267.00</b>	<b>267.00</b>	
	500 mm dia	Each Set	<b>309.00</b>	<b>309.00</b>	<b>309.00</b>	
	600 mm dia	Each Set	<b>350.00</b>	<b>350.00</b>	<b>350.00</b>	
	700 mm dia	Each Set	<b>727.00</b>	<b>727.00</b>	<b>727.00</b>	
	750 mm dia	Each Set	<b>755.00</b>	<b>755.00</b>	<b>755.00</b>	
	800 mm dia	Each Set	<b>811.00</b>	<b>811.00</b>	<b>811.00</b>	
	850 mm dia	Each Set	<b>904.00</b>	<b>904.00</b>	<b>904.00</b>	
	900 mm dia	Each Set	<b>950.00</b>	<b>950.00</b>	<b>950.00</b>	
	1000 mm dia	Each Set	<b>1053.00</b>	<b>1053.00</b>	<b>1053.00</b>	

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate

**11. S o R FOR PRE-STRESSED (NON-CYLINDER) CONCRETE PIPES FOR THE YEAR 2014-15**

Sl.No.	Description							
<b>1</b>	<b>2</b>							
<b>1</b>	<b>Manufacture, Supply, Delivery of Pre-stressed (Non-cylinder) concrete pipes conforming to IS 784/2001 ex-factory excluding transportation, taxes &amp; duties., for the following working pressures.(the manufacture shall design the pipes as per the IS Code 784-2001)</b>							
	Size	Unit	SoR For 2014-15.					
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
			6 Kg/cm2	8 Kg/cm2	10 Kg/cm2	12 Kg/cm2	14 Kg/cm2	16 Kg/cm2
	350 MM DIA	Metre	2637	2646	2660	2675	2732	2830
	400 MM DIA	Metre	2828	2850	2884	2925	2982	3029
	450 MM DIA	Metre	2979	2995	3032	3096	3180	3252
	500 MM DIA	Metre	3224	3240	3269	3346	3420	3527
	600 MM DIA	Metre	3702	3733	3775	3902	4034	4165
	700 MM DIA	Metre	4564	4587	4666	4785	4963	5114
	800 MM DIA	Metre	5389	5450	5599	5742	5983	6209
	900 MM DIA	Metre	6250	6304	6456	6741	7017	7517
	1000 MM DIA	Metre	7342	7413	7636	7957	8350	8811
	1100 MM DIA	Metre	8339	8469	8721	9219	9646	10122
	1200 MM DIA	Metre	9232	9402	9915	10393	11022	11940
	1300 MM DIA	Metre	10466	11083	11713	12353	13451	14719
	1400 MM DIA	Metre	11984	12698	13443	14636	15711	16588
	1500 MM DIA	Metre	13989	14831	15673	17044	18185	19181
	1600 MM DIA	Metre	15754	16715	17677	20101	20612	21739
	1700 MM DIA	Metre	16584	17288	18241	20600	22874	23955
	1800 MM DIA	Metre	17861	19061	20178	22260	24717	25923
	1900 MM DIA	Metre	19092	20203	22087	23415	25543	28523
	2000 MM DIA	Metre	20990	22370	23623	26052	29787	32030
<b>2</b>	<b>Cost of laying jointing, testing to hydrostatic field test pressure including cost of rubber rings, cost of transportation of water and emptying pipe line after completion of field testing etc.</b>							
	350 MM DIA	Metre	194	194	194	194	194	194

	400 MM DIA	Metre	209	209	209	209	209	209
	450 MM DIA	Metre	242	242	242	242	242	242
	500 MM DIA	Metre	257	257	257	257	257	257
	600 MM DIA	Metre	316	316	316	316	316	316
	700 MM DIA	Metre	371	371	371	371	371	371
	800 MM DIA	Metre	420	420	420	420	420	420
	900 MM DIA	Metre	460	460	460	460	460	460
	1000 MM IA	Metre	531	531	531	531	531	531
	1100 MM IA	Metre	596	596	596	596	596	596
	1200 MMDIA	Metre	661	661	661	661	661	661
	1300 MM DIA	Metre	749	749	749	749	749	749
	1400 MM DIA	Metre	847	847	847	847	847	847
	1500 MM DIA	Metre	919	919	919	919	919	919
	1600 MM DIA	Metre	1030	1030	1030	1030	1030	1030
	1700 MM DIA	Metre	1121	1121	1121	1121	1121	1121
	1800 MM DIA	Metre	1186	1186	1186	1186	1186	1186
	1900 MM DIA	Metre	1253	1253	1253	1253	1253	1253
	2000 MM DIA	Metre	1318	1318	1318	1318	1318	1318
<b>3</b>	<b>Conveyance of pre-stressed (Non-cylinder) concrete pipes and accessories including loading at factory, un-loading at site and stacking for the following sizes.(minimum distance of 100 km to be considered if the distance is less by 100 km from factory to site)</b>							
	350 MM DIA	PerKM/M	1.30	1.30	1.30	1.30	1.30	1.30
	400 MM DIA	PerKM/M	1.30	1.30	1.30	1.30	1.30	1.30
	450 MM DIA	PerKM/M	1.60	1.60	1.60	1.60	1.60	1.60
	500 MM DIA	PerKM/M	1.70	1.70	1.70	1.70	1.70	1.70
	600 MM DIA	PerKM/M	1.90	1.90	1.90	1.90	1.90	1.90
	700 MM DIA	PerKM/M	3.10	3.10	3.10	3.10	3.10	3.10
	800 MM DIA	PerKM/M	3.10	3.10	3.10	3.10	3.10	3.10
	900 MM DIA	PerKM/M	3.10	3.10	3.10	3.10	3.10	3.10
	1000 MM DIA	PerKM/M	5.00	5.00	5.00	5.00	5.00	5.00

	1100 MM DIA	PerKM/M	5.00	5.00	5.00	5.00	5.00	5.00
	1200 MM DIA	PerKM/M	9.60	9.60	9.60	9.60	9.60	9.60
	1300 MM DIA	PerKM/M	9.70	9.70	9.70	9.70	9.70	9.70
	1400 MM DIA	PerKM/M	9.70	9.70	9.70	9.70	9.70	9.70
	1500 MM DIA	PerKM/M	9.70	9.70	9.70	9.70	9.70	9.70
	1600 MM DIA	PerKM/M	10.90	10.90	10.90	10.90	10.90	10.90
	1700 MM DIA	PerKM/M	10.90	10.90	10.90	10.90	10.90	10.90
	1800 MM DIA	PerKM/M	11.10	11.10	11.10	11.10	11.10	11.10
	1900 MM DIA	PerKM/M	11.60	11.60	11.60	11.60	11.60	11.60
	2000 MM DIA	PerKM/M	11.60	11.60	11.60	11.60	11.60	11.60
<b>4</b>	<b>Cost of Machine End pair (Socket +Spigot) for providing M.S Specials on PSC pipelines excluding cost of M.S Special including cost and conveyance to site etc., complete.</b>							
	350 MM DIA	Per Pair	12236	12236	12236	12236	12236	12236
	400 MM DIA	Per Pair	14035	14035	14035	14035	14035	14035
	450 MM DIA	Per Pair	15833	15833	15833	15833	15833	15833
	500 MM DIA	Per Pair	17633	17633	17633	17633	17633	17633
	600 MM DIA	Per Pair	21161	21161	21161	21161	21161	21161
	700 MM DIA	Per Pair	24759	24759	24759	24759	24759	24759
	800 MM DIA	Per Pair	28358	28358	28358	28358	28358	28358
	900 MM DIA	Per Pair	31956	31956	31956	31956	31956	31956
	1000 MM DIA	Per Pair	35267	35267	35267	35267	35267	35267
	1100 MM DIA	Per Pair	38866	38866	38866	38866	38866	38866
	1200 MM DIA	Per Pair	42464	42464	42464	42464	42464	42464
	1300 MM DIA	Per Pair	45775	45775	45775	45775	45775	45775
	1400 MM DIA	Per Pair	53980	53980	53980	53980	53980	53980
	1500 MM DIA	Per Pair	63337	63337	63337	63337	63337	63337

	1600 MM DIA	Per Pair	70534	70534	70534	70534	70534	70534
	1700 MM DIA	Per Pair	79145	79145	79145	79145	79145	79145
	1800 MM DIA	Per Pair	90452	90452	90452	90452	90452	90452
	1900 MM DIA	Per Pair	104584	104584	104584	104584	104584	104584
	2000 MM DIA	Per Pair	125784	125784	125784	125784	125784	125784
<b>5</b>	<b>Cost of M.S Flanges including cost of bolts, nuts, rubber packing etc., complete and flange thickness confirming to is:7322-1985 and flange dimensions confirming to is:1538-1993 excluding cost of ms specials including cost and conveyance to site, vat etc., complete.</b>							
	Diameter and thickness	Unit	Rate	Diameter and thickness	Unit	Rate		
	80 mm diax 15 mm thick	Each Flange	784	500mm diax 20 mm thick	Each Flange	7927		
	100 mm diax 15 mm thick	Each Flange	1069	600 mm diax 20 mm thick	Each Flange	9978		
	125 mm diax 15 mm thick	Each Flange	1284	700 mm diax 25 mm thick	Each Flange	14113		
	150 mm diax 15 mm thick	Each Flange	1711	750 mm diax 25 mm thick	Each Flange	15539		
	200 mm diax 15 mm thick	Each Flange	2138	800 mm diax 25 mm thick	Each Flange	17391		
	250 mm diax 15 mm thick	Each Flange	2780	900 mm diax 25 mm thick	Each Flange	19957		
	300 mm diax 15 mm thick	Each Flange	3149	1000 mm diax 25 mm thick	Each Flange	23520		
	350 mm diax 18 mm thick	Each Flange	4590	1050 mm diax 25 mm thick	Each Flange	24918		
	400 mm diax 18 mm thick	Each Flange	5730	1100 mm diax 25 mm thick	Each Flange	26941		
	450 mm diax 18 mm thick	Each Flange	6657	1200 mm diax 32 mm thick	Each Flange	35780		

Note: a) The above rate of PSC pipes are based on the HT wire cost of Rs.59,500/-MT (Basic+ CED+ST & freight).  
and cement price of Rs.4,000/- per MT (including all taxes and freight)

The rates may be revised depending upon the increase/decrease in the cost of HT wire and cement. as per the following method. The cost of HT wire may be obtained from reputed firms like SAIL/TATA/ SS Ltd. etc.,

Revised Cost =Cost as per the above table +R1+R2.

R1= Variation (increase / decrease ) in cost (Rs. per metre )due to change in the cost of HT Wire =(H2-H1)/1000 X Wh.

R2= Variation (increase / decrease ) in cost (Rs. per metre )due to change in the cost of Cement =(C2-C1)/1000 X Wc.

H1 = Rs. 59,500/- H2 = Cost of HT Wire (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 4,000/- C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

Wh=Weight of HT Wire required (Kg.) per metre of pipe. Wc= Weight of Cement required (Kg.) per metre of pipe.

The rates for MS flanges are considering landed price of MS Plates of Rs.45,000/- per MT. Price variation to be released on actual weight of flange.

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate



## 12. S o R FOR PRE-STRESSED (CYLINDER) CONCRETE PIPES FOR THE YEAR 2014-15

Sl No.	Description										
1	2										
1	Pre-stressed (Cylinder type ) concrete pipes conforming to IS 784/2001 @ ex-factory cost of pipes, excluding transportation, laying, jointing, testing, bends, tees, specials, taxes & duties etc.,. For the following working pressures.(the manufacture shall design the pipes as per the IS Code 784-2001).										
	Size	Unit	SoR For 2014-15								
			4 Kg/cm2	6 Kg/cm2	8 Kg/cm2	10 Kg/cm2	12 Kg/cm2	14 Kg/cm2	16 Kg/cm2	18 Kg/cm2	20 Kg/cm2
	400 MM DIA	Meter	5063	5063	5063	5063	5089	5143	5234	5321	5388
	450 MM DIA	Meter	5503	5503	5503	5528	5594	5674	5789	5868	5960
	500 MM DIA	Meter	6016	6016	6030	6115	6188	6289	6383	6525	6630
	600 MM DIA	Meter	7144	7197	7292	7419	7536	7654	7835	8003	8172
	700 MM DIA	Meter	8256	8386	8543	8710	8868	9022	9215	9462	9646
	800 MM DIA	Meter	9686	9868	10087	10306	10506	10710	10959	11222	11525
	900 MM DIA	Meter	11448	11681	11952	12226	12499	12745	13076	13404	13730
	1000 MM DIA	Meter	13279	13590	13917	14255	14590	14869	15257	15657	16068
	1100 MM DIA	Meter	14763	15134	15527	15881	16255	16596	17021	17470	18454
	1200 MM DIA	Meter	16734	17167	17606	18043	18491	18892	19389	20374	21077
	1300 MM DIA	Meter	18607	19108	19618	20128	20652	21113	22289	22916	23704
	1400 MM DIA	Meter	20406	20976	21571	22168	22763	23939	24668	25413	27068
	1500 MM DIA	Meter	22378	23014	23651	24277	25595	26318	27412	29037	30944
	1600 MM DIA	Meter	25249	25957	26680	28028	28849	29670	31714	32621	33503
	1700 MM DIA	Meter	27169	27989	28858	30403	31333	33072	34639	35621	36552
	1800 MM DIA	Meter	29755	30616	32300	33345	34365	36282	37954	39134	40314
	1900 MM DIA	Meter	34911	35893	37772	38881	40866	42444	43988	45298	46536
	2000 MM DIA	Meter	37199	39060	40322	41620	43886	45257	47377	48883	50219
2	Cost of laying jointing, testing to hydrostatic field test pressure including cost of site welding and fixing of polypropylene diapher cloth, cost of transportation of water and emptying pipe line after completion of field testing etc.										
	400 MM DIA	Meter	408	408	408	408	408	408	408	408	408

	450 MM DIA	Meter	480	480	480	480	480	480	480	480	480
	500 MM DIA	Meter	523	523	523	523	523	523	523	523	523
	600 MM DIA	Meter	612	612	612	612	612	612	612	612	612
	700 MM DIA	Meter	697	697	697	697	697	697	697	697	697
	800 MM DIA	Meter	800	800	800	800	800	800	800	800	800
	900 MM DIA	Meter	902	902	902	902	902	902	902	902	902
	1000 MM DIA	Meter	988	988	988	988	988	988	988	988	988
	1100 MM DIA	Meter	1120	1120	1120	1120	1120	1120	1120	1120	1120
	1200 MM DIA	Meter	1222	1222	1222	1222	1222	1222	1222	1222	1222
	1300 MM DIA	Meter	1308	1308	1308	1308	1308	1308	1308	1308	1308
	1400 MM DIA	Meter	1440	1440	1440	1440	1440	1440	1440	1440	1440
	1500 MM DIA	Meter	1598	1598	1598	1598	1598	1598	1598	1598	1598
	1600 MM DIA	Meter	1730	1730	1730	1730	1730	1730	1730	1730	1730
	1700 MM DIA	Meter	1948	1948	1948	1948	1948	1948	1948	1948	1948
	1800 MM DIA	Meter	2065	2065	2065	2065	2065	2065	2065	2065	2065
	1900 MM DIA	Meter	2253	2253	2253	2253	2253	2253	2253	2253	2253
	2000 MM DIA	Meter	2398	2398	2398	2398	2398	2398	2398	2398	2398
<b>3</b>	<b>Conveyance of Pre-stressed (Cylinder type) concrete pipes and accessories including loading at factory, un-loading at site and stacking for the following sizes. (minimum distance of 100 km to be considered if the distance is less by 100 km from factory to site)</b>										
	400 MM DIA	Per KM/M	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
	450 MM DIA	Per KM/M	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
	500 MM DIA	Per KM/M	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
	600 MM DIA	Per KM/M	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
	700 MM DIA	Per KM/M	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90
	800 MM DIA	Per KM/M	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90
	900 MM DIA	Per KM/M	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90
	1000 MM DIA	Per KM/M	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60

1100 MM DIA	Per KM/M	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60
1200 MM DIA	Per KM/M	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
1300 MM DIA	Per KM/M	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
1400 MM DIA	Per KM/M	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
1500 MM DIA	Per KM/M	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
1600 MM DIA	Per KM/M	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
1700 MM DIA	Per KM/M	10.90	10.90	10.90	10.90	10.90	10.90	10.90	10.90	10.90	10.90
1800 MM DIA	Per KM/M	10.90	10.90	10.90	10.90	10.90	10.90	10.90	10.90	10.90	10.90
1900 MM DIA	Per KM/M	10.90	10.90	10.90	10.90	10.90	10.90	10.90	10.90	10.90	10.90
2000 MM DIA	Per KM/M	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50

Note: The rates of PCCP pipes which were incorporated in the SSR are based on the following raw materials cost.

HT Wire: - Rs.59,500/- (including all taxes & freight)

HR Coil (Hot Rolled): - Rs.50,000/- (including all taxes & freight)

Cement Cost Rs. 4,000/- per MT (including all duties, taxes & freight)

The rates may be revised depending upon the increase/ decrease in the cost of raw materials (landed price) as per the following method.

Revised Cost = Cost as per the above table + R1 + R2 + R3.

R1 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of HT Wire =  $(H2 - H1) / 1000 \times Wh$ .

R2 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of HR Coil =  $(R2 - R1) / 1000 \times Wr$ .

R3 = Variation (increase / decrease) in cost (Rs. per metre) due to change in the cost of Cement =  $(C2 - C1) / 1000 \times Wc$ .

H1 = Rs. 59,500/- H2 = Cost of HT Wire (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

R1 = Rs. 50,000/- R2 = Cost of HR Coil (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

C1 = Rs. 4,000/- C2 = Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate

Wh = Weight of HT Wire required (Kg.) per metre of pipe. Wc = Weight of Cement required (Kg.) per metre of pipe.

Wr = Weight of HR Coil required (kg) per metre of pipe.

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate

## 13. S o R FOR BAR WRAPPED STEEL CYLINDRICAL (BWSC) PIPES FOR THE YEAR 2014-15

Sl. No	Description											
1	2											
1	Bar Wrapped Steel Cylindrical (BWSC) pipes conforming to IS 15155 - 2002, ex-factory excluding transportation, taxes and duties etc., for bar wrapped steel cylindrical pipes.											
	Size	Unit	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
			4 -12 Kg/cm <sup>2</sup>	14 Kg/cm <sup>2</sup>	16 Kg/cm <sup>2</sup>	18 Kg/cm <sup>2</sup>	20 Kg/cm <sup>2</sup>	22 Kg/cm <sup>2</sup>	24 Kg/cm <sup>2</sup>	26 Kg/cm <sup>2</sup>	28 Kg/cm <sup>2</sup>	30 Kg/cm <sup>2</sup>
	250 MM DIA	Meter	2953	2953	2953	2953	2953	2953	2957	3002	3039	3196
	300 MM DIA	Meter	3326	3326	3326	3326	3326	3380	3478	3612	3689	3878
	350 MM DIA	Meter	4026	4026	4026	4051	4102	4158	4273	4433	4571	4771
	400 MM DIA	Meter	4420	4420	4449	4530	4594	4816	5015	5219	5391	6090
	450 MM DIA	Meter	4876	4895	4990	5067	5329	5559	5836	6064	6319	6842
	500 MM DIA	Meter	5450	5539	5644	5933	6227	6552	6885	7175	7652	8120
	600 MM DIA	Meter	7207	7339	7483	7936	8386	8757	9259	9699	10309	10823
	700 MM DIA	Meter	8693	8979	9615	10234	10864	11484	12283	12856	13487	14325
	800 MM DIA	Meter	9889	10780	11571	12337	13165	14177	15060	16242	17004	18040
	900 MM DIA	Meter	12277	12883	13899	14907	15872	16715	18381	19755	20711	22061
	1000 MM DIA	Meter	13883	15309	16503	17672	18870	20479	22499	24070	25503	27252
	1100 MM DIA	Meter	20010	20388	20702	22750	25035	26627	29611	31138	33286	36097
	1200 MM DIA	Meter	22132	22865	23816	26257	28874	31126	33903	35413	39595	43417
2	Cost of laying jointing, testing to hydrostatic field test pressure including cost of site welding and fixing of polypropylene diaher cloth, cost of transportation of water and emptying pipe line after completion of field testing.											
	250 MM DIA	Meter	278	278	278	278	278	278	278	278	278	278
	300 MM DIA	Meter	327	327	327	327	327	327	327	327	327	327
	350 MM DIA	Meter	387	387	387	387	387	387	387	387	387	387
	400 MM DIA	Meter	433	433	433	433	433	433	433	433	433	433
	450 MM DIA	Meter	433	433	433	433	433	433	433	433	433	433
	500 MM DIA	Meter	542	542	542	542	542	542	542	542	542	542
	600 MM DIA	Meter	666	666	666	666	666	666	666	666	666	666

	700 MM DIA	Meter	776	776	776	776	776	776	776	776	776	776
	800 MM DIA	Meter	883	883	883	883	883	883	883	883	883	883
	900 MM DIA	Meter	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038
	1000 MM DIA	Meter	1147	1147	1147	1147	1147	1147	1147	1147	1147	1147
	1100 MM DIA	Meter	1348	1348	1348	1348	1348	1348	1348	1348	1348	1348
	1200 MM DIA	Meter	1509	1509	1509	1509	1509	1509	1509	1509	1509	1509
<b>3</b>	<b>Conveyance of Bar Wrapped Steel Cylindrical (BWSC) pipes and accessories including loading at factory, un-loading at site and stacking for the following sizes. (minimum distance of 100 km to be considered if the distance is less by 100 km from factory to site)</b>											
	250 MM DIA	Per KM/M	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	300 MM DIA	Per KM/M	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	350 MM DIA	Per KM/M	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
	400 MM DIA	Per KM/M	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	450 MM DIA	Per KM/M	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
	500 MM DIA	Per KM/M	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
	600 MM DIA	Per KM/M	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
	700 MM DIA	Per KM/M	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90
	800 MM DIA	Per KM/M	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
	900 MM DIA	Per KM/M	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70
	1000 MM DIA	Per KM/M	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10
	1100 MM DIA	Per KM/M	6.93	6.93	6.93	6.93	6.93	6.93	6.93	6.93	6.93	6.93
	1200 MM DIA	Per KM/M	9.68	9.68	9.68	9.68	9.68	9.68	9.68	9.68	9.68	9.68

Note: The above rates of BWSC pipes are based on the following raw materials' cost.

HR Plates - Rs.50,000/- per MT (Basic +CED+ST & freight)

Wire rods - Rs.48,000/- per MT (Basic +CED+ST & freight)

Cement Cost Rs. 4,400/- per MT (including all duties, taxes & freight)

The rates may be revised depending upon the increase/ decrease in the cost of raw materials (landed price) as per the following method.

Revised Cost = Cost as per the above table + R1+R2+R3.

R1= Variation (increase / decrease ) in cost (Rs. per metre )due to change in the cost of HR Plate =(H2-H1)/1000 X Wh.

R2= Variation (increase / decrease ) in cost (Rs. per metre )due to change in the cost of wire rods =(W2-W1)/1000 X Ww.

R3= Variation (increase / decrease ) in cost (Rs. per metre )due to change in the cost of Cement =(C2-C1)/1000 X Wc .

H1 = Rs. 50,000/- H2 = Cost of HR Plate (Rs. Per MT including all taxes and freight) at the time of preparation of estimate.

W1 = Rs. 48,000/- W2 = Cost of Wire rods (Rs. Per MT including all taxes and freight) at the time of preparation of estimate .

$C1 = \text{Rs. } 4,000/-$   $C2 = \text{Cost of Cement (Rs. Per MT including all taxes and freight) at the time of preparation of estimate}$

$W_h = \text{Weight of HR Plate required (Kg.) per metre of pipe.}$   $W_c = \text{Weight of Cement required (Kg.) per metre of pipe.}$

$W_w = \text{Weight of wire rods required (kg) per metre of pipe.}$

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**14. S o R FOR M.S. PIPES FOR THE YEAR 2014-15**

<b>Sl.No.</b>	<b>Description</b>	<b>Unit</b>	<b>Thicknes s in mm</b>	<b>Rate (Rs.)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1	<b>Manufacture, supply and delivery of M.S Pipes conforming to is 3589/2001 including in lining with cement mortar (1:2) 15mm thick using 4 numbers of 6mm dia M.S.Rings at each end of the pipe and out coating with cement mortar (1:3) 30mm thick by shortcreting or gunetting duly providing wire mesh of size 50x50x3mm including cost of all materials, labour charges, transportation to anywhere in AP, but excluding taxes &amp; duties, etc.</b>			
	500 mm dia	Meter	8.00	<b>8771</b>
	600 mm dia	Meter	8.00	<b>10457</b>
	700 mm dia	Meter	8.00	<b>12196</b>
	700 mm dia	Meter	10.00	<b>15144</b>
	800 mm dia	Meter	8.00	<b>13992</b>
	800 mm dia	Meter	10.00	<b>16190</b>
	800 mm dia	Meter	12.00	<b>19180</b>
	900 mm dia		8.00	<b>15621</b>
	900 mm dia	Meter	10.00	<b>18089</b>
	900 mm dia	Meter	12.00	<b>20563</b>
	1000 mm dia	Meter	8.00	<b>17529</b>
	1000 mm dia	Meter	10.00	<b>20260</b>
	1000 mm dia	Meter	12.00	<b>22907</b>
	1000 mm dia	Meter	14.00	<b>26473</b>
	1100 mm dia	Meter	8.00	<b>20638</b>
	1100 mm dia	Meter	10.00	<b>23643</b>
	1100 mm dia	Meter	12.00	<b>26650</b>
	1100 mm dia	Meter	14.00	<b>30810</b>
	1100 mm dia	Meter	16.00	<b>34986</b>
	1200 mm dia	Meter	8.00	<b>23313</b>
	1200 mm dia	Meter	10.00	<b>26579</b>
	1200 mm dia	Meter	12.00	<b>29856</b>
	1200 mm dia	Meter	14.00	<b>33150</b>
	1200 mm dia	Meter	16.00	<b>37632</b>
	1200 mm dia	Meter	18.00	<b>42128</b>
	1300 mm dia	Meter	8.00	<b>25437</b>

	1300 mm dia	Meter	10.00	<b>28971</b>
	1300 mm dia	Meter	12.00	<b>32517</b>
	1300 mm dia	Meter	14.00	<b>36072</b>
	1300 MM DIA	Meter	16.00	<b>39643</b>
	1300 MM DIA	Meter	18.00	<b>44368</b>
	1300 MM DIA	Meter	20.00	<b>49107</b>
	1400 MM DIA	Meter	8.00	<b>27068</b>
	1400 MM DIA	Meter	10.00	<b>30867</b>
	1400 MM DIA	Meter	12.00	<b>34680</b>
	1400 MM DIA	Meter	14.00	<b>38508</b>
	1400 MM DIA	Meter	16.00	<b>42342</b>
	1400 MM DIA	Meter	18.00	<b>47382</b>
	1400 MM DIA	Meter	20.00	<b>52434</b>
	1400 MM DIA	Meter	22.00	<b>57500</b>
	1500 MM DIA	Meter	8.00	<b>28971</b>
	1500 MM DIA	Meter	10.00	<b>33044</b>
	1500 MM DIA	Meter	12.00	<b>37121</b>
	1500 MM DIA	Meter	14.00	<b>41214</b>
	1500 MM DIA	Meter	16.00	<b>45318</b>
	1500 MM DIA	Meter	18.00	<b>49427</b>
	1500 MM DIA	Meter	20.00	<b>54684</b>
	1500 MM DIA	Meter	22.00	<b>59956</b>
	1500 MM DIA	Meter	24.00	<b>65242</b>
	1600 MM DIA	Meter	8.00	<b>30617</b>
	1600 MM DIA	Meter	10.00	<b>34936</b>
	1600 MM DIA	Meter	12.00	<b>39285</b>
	1600 MM DIA	Meter	14.00	<b>43645</b>
	1600 MM DIA	Meter	16.00	<b>48015</b>
	1600 MM DIA	Meter	18.00	<b>52395</b>
	1600 MM DIA	Meter	20.00	<b>57961</b>
	1600 MM DIA	Meter	22.00	<b>63542</b>
	1600 MM DIA	Meter	24.00	<b>69136</b>
	1600 MM DIA	Meter	26.00	<b>74742</b>
	1700 MM DIA	Meter	8.00	<b>32505</b>
	1700 MM DIA	Meter	10.00	<b>37108</b>
	1700 MM DIA	Meter	12.00	<b>41723</b>
	1700 MM DIA	Meter	14.00	<b>46351</b>
	1700 MM DIA	Meter	16.00	<b>50986</b>
	1700 MM DIA	Meter	18.00	<b>55636</b>
	1700 MM DIA	Meter	20.00	<b>61543</b>
	1700 MM DIA	Meter	22.00	<b>67466</b>
	1700 MM DIA	Meter	24.00	<b>73398</b>
	1700 MM DIA	Meter	26.00	<b>79349</b>
	1700 MM DIA	Meter	28.00	<b>85308</b>
	1800 MM DIA	Meter	8.00	<b>34409</b>



1800 MM DIA	Meter	10.00	<b>39279</b>
1800 MM DIA	Meter	12.00	<b>44163</b>
1800 MM DIA	Meter	14.00	<b>49061</b>
1800 MM DIA	Meter	16.00	<b>53960</b>
1800 MM DIA	Meter	18.00	<b>58879</b>
1800 MM DIA	Meter	20.00	<b>63805</b>
1800 MM DIA	Meter	22.00	<b>69933</b>
1800 MM DIA	Meter	24.00	<b>76074</b>
1800 MM DIA	Meter	26.00	<b>82226</b>
1800 MM DIA	Meter	28.00	<b>88394</b>
1800 MM DIA	Meter	30.00	<b>94572</b>
1900 MM DIA	Meter	8.00	<b>35005</b>
1900 MM DIA	Meter	10.00	<b>41177</b>
1900 MM DIA	Meter	12.00	<b>46323</b>
1900 MM DIA	Meter	14.00	<b>51486</b>
1900 MM DIA	Meter	16.00	<b>56659</b>
1900 MM DIA	Meter	18.00	<b>61845</b>
1900 MM DIA	Meter	20.00	<b>67035</b>
1900 MM DIA	Meter	22.00	<b>73467</b>
1900 MM DIA	Meter	24.00	<b>79912</b>
1900 MM DIA	Meter	26.00	<b>86372</b>
1900 MM DIA	Meter	28.00	<b>92843</b>
1900 MM DIA	Meter	30.00	<b>99329</b>
1900 MM DIA	Meter	32.00	<b>105824</b>
2000 MM DIA	Meter	8.00	<b>36624</b>
2000 MM DIA	Meter	10.00	<b>43074</b>
2000 MM DIA	Meter	12.00	<b>48492</b>
2000 MM DIA	Meter	14.00	<b>53920</b>
2000 MM DIA	Meter	16.00	<b>59359</b>
2000 MM DIA	Meter	18.00	<b>64812</b>
2000 MM DIA	Meter	20.00	<b>70268</b>
2000 MM DIA	Meter	22.00	<b>75700</b>
2000 MM DIA	Meter	24.00	<b>82329</b>
2000 MM DIA	Meter	26.00	<b>88971</b>
2000 MM DIA	Meter	28.00	<b>95629</b>
2000 MM DIA	Meter	30.00	<b>102295</b>
2000 MM DIA	Meter	32.00	<b>108976</b>
2000 MM DIA	Meter	34.00	<b>115669</b>
2100 MM DIA	Meter	8.00	<b>38472</b>
2100 MM DIA	Meter	10.00	<b>45245</b>
2100 MM DIA	Meter	12.00	<b>50930</b>
2100 MM DIA	Meter	14.00	<b>56614</b>
2100 MM DIA	Meter	16.00	<b>62332</b>
2100 MM DIA	Meter	18.00	<b>68049</b>
2100 MM DIA	Meter	20.00	<b>73777</b>
2100 MM DIA	Meter	22.00	<b>79519</b>
2100 MM DIA	Meter	24.00	<b>86481</b>

## Public Health Engineering Items

	2100 MM DIA	Meter	26.00	<b>93454</b>
	2100 MM DIA	Meter	28.00	<b>100442</b>
	2100 MM DIA	Meter	30.00	<b>107440</b>
	2100 MM DIA	Meter	32.00	<b>114453</b>
	2100 MM DIA	Meter	34.00	<b>121478</b>
	2100 MM DIA	Meter	36.00	<b>128515</b>
	2200 MM DIA	Meter	8.00	<b>40088</b>
	2200 MM DIA	Meter	10.00	<b>47142</b>
	2200 MM DIA	Meter	12.00	<b>53096</b>
	2200 MM DIA	Meter	14.00	<b>59056</b>
	2200 MM DIA	Meter	16.00	<b>65033</b>
	2200 MM DIA	Meter	18.00	<b>71014</b>
	2200 MM DIA	Meter	20.00	<b>77011</b>
	2200 MM DIA	Meter	22.00	<b>83021</b>
	2200 MM DIA	Meter	26.00	<b>97561</b>
	2200 MM DIA	Meter	28.00	<b>104847</b>
	2200 MM DIA	Meter	30.00	<b>112148</b>
	2200 MM DIA	Meter	32.00	<b>119461</b>
	2200 MM DIA	Meter	34.00	<b>126789</b>
	2200 MM DIA	Meter	36.00	<b>134128</b>
	2200 MM DIA	Meter	38.00	<b>141481</b>
	2300 MM DIA	Meter	10.00	<b>49313</b>
	2300 MM DIA	Meter	12.00	<b>55533</b>
	2300 MM DIA	Meter	16.00	<b>68000</b>
	2300 MM DIA	Meter	18.00	<b>74255</b>
	2300 MM DIA	Meter	20.00	<b>80519</b>
	2300 MM DIA	Meter	22.00	<b>86791</b>
	2300 MM DIA	Meter	26.00	<b>101983</b>
	2300 MM DIA	Meter	28.00	<b>109597</b>
	2300 MM DIA	Meter	30.00	<b>117226</b>
	2300 MM DIA	Meter	32.00	<b>124866</b>
	2300 MM DIA	Meter	34.00	<b>132519</b>
	2300 MM DIA	Meter	36.00	<b>140186</b>
	2300 MM DIA	Meter	38.00	<b>147865</b>
	2300 MM DIA	Meter	40.00	<b>155555</b>
	2400MM DIA	Meter	10.00	<b>51209</b>
	2400 MM DIA	Meter	12.00	<b>57696</b>
	2400 MM DIA	Meter	14.00	<b>65125</b>
	2400 MM DIA	Meter	16.00	<b>71636</b>
	2400 MM DIA	Meter	18.00	<b>78153</b>
	2400 MM DIA	Meter	20.00	<b>84687</b>
	2400 MM DIA	Meter	22.00	<b>92073</b>
	2400 MM DIA	Meter	26.00	<b>99701</b>
	2400 MM DIA	Meter	28.00	<b>106641</b>
	2400 MM DIA	Meter	30.00	<b>113593</b>
	2400 MM DIA	Meter	32.00	<b>120556</b>
	2400 MM DIA	Meter	34.00	<b>127528</b>

	2400 MM DIA	Meter	36.00	<b>134516</b>
	2400 MM DIA	Meter	38.00	<b>141511</b>
	2400 MM DIA	Meter	40.00	<b>142254</b>
	2400 MM DIA	Meter	42.00	<b>149268</b>
	2500 MM DIA	Meter	10.00	<b>53383</b>
	2500 MM DIA	Meter	14.00	<b>66902</b>
	2500 MM DIA	Meter	16.00	<b>73677</b>
	2500 MM DIA	Meter	18.00	<b>80465</b>
	2500 MM DIA	Meter	20.00	<b>87261</b>
	2500 MM DIA	Meter	22.00	<b>94071</b>
	2500 MM DIA	Meter	28.00	<b>118761</b>
	2500 MM DIA	Meter	30.00	<b>127019</b>
	2500 MM DIA	Meter	34.00	<b>143569</b>
	2500 MM DIA	Meter	36.00	<b>151864</b>
	2500 MM DIA	Meter	38.00	<b>160171</b>
	2500 MM DIA	Meter	40.00	<b>168490</b>
	2500 MM DIA	Meter	42.00	<b>176824</b>
	2500 MM DIA	Meter	44.00	<b>185170</b>
	2500 MM DIA	Meter	46.00	<b>193528</b>
	2600 MM DIA	Meter	12.00	<b>62297</b>
	2600 MM DIA	Meter	14.00	<b>69333</b>
	2600 MM DIA	Meter	16.00	<b>76379</b>
	2600 MM DIA	Meter	18.00	<b>83432</b>
	2600 MM DIA	Meter	20.00	<b>90497</b>
	2600 MM DIA	Meter	22.00	<b>97572</b>
	2600 MM DIA	Meter	32.00	<b>140298</b>
	2600 MM DIA	Meter	34.00	<b>148882</b>
	2600 MM DIA	Meter	36.00	<b>157477</b>
	2600 MM DIA	Meter	38.00	<b>166085</b>
	2600 MM DIA	Meter	40.00	<b>174707</b>
	2600 MM DIA	Meter	42.00	<b>183343</b>
	2600 MM DIA	Meter	44.00	<b>191990</b>
	2600 MM DIA	Meter	46.00	<b>200650</b>
	2600 MM DIA	Meter	48.00	<b>209323</b>
2	<b>Cost of Laying, Jointing, Hydrostatic Filed Test Pressure, Including Cost of Site Welding, Jointing Materials And Cost of Transportation of Water Including Emptying Pipe Line After Completion Of Field Testing</b>			
	400 MM DIA	Meter		<b>479</b>
	500 MM DIA	Meter		<b>596</b>
	600 MM DIA	Meter		<b>734</b>
	700 MM DIA	Meter		<b>851</b>
	800 MM DIA	Meter		<b>971</b>
	900 MM DIA	Meter		<b>1142</b>
	1000 MM DIA	Meter		<b>1261</b>
	1100 MM DIA	Meter		<b>1483</b>
	1200 MM DIA	Meter		<b>1661</b>

	1300 MM DIA	Meter		<b>1909</b>
	1400 MM DIA	Meter		<b>2197</b>
	1500 MM DIA	Meter		<b>2525</b>
	1600 MM DIA	Meter		<b>2903</b>
	1700 MM DIA	Meter		<b>3336</b>
	1800 MM DIA	Meter		<b>3838</b>
	1900 MM DIA	Meter		<b>4414</b>
	2000 MM DIA	Meter		<b>5078</b>
	2100 MM DIA	Meter		<b>5840</b>
	2200 MM DIA	Meter		<b>6714</b>
	2300 MM DIA	Meter		<b>7721</b>
	2400 MM DIA	Meter		<b>8879</b>
	2500 MM DIA	Meter		<b>10211</b>
	2600 MM DIA	Meter		<b>11744</b>

The above rates of MS Spiral pipes are based on the following raw materials cost.

MS Plates = Rs 46,500/- Per MT.

The rates may be revised depending upon the increase/decrease in the cost of raw materials (landed price) as per the following method.

Revised Cost = Cost as per the above table "R<sub>1</sub>".

R<sub>1</sub> = Variation (Increase/Decrease) in cost (Rs. Per meter) due to change in cost of MS Plates =  
 $(M_2 - M_1) / 1000 \times W_m$

M<sub>1</sub> = Rs 46,500/-

M<sub>2</sub> = Cost of MS Plates (Rs. Per MT including all taxes and freight )  
 at the time of preparation of estimate

W<sub>m</sub> = Weight of MS Plates required (Kg) per meter of pipe

Note: The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**15. S.S. RATES FOR H.D.P.E PIPES FOR THE YEAR 2014-15. (PE - 80 Grade)**

Sl.No	Description	4.0 kg/ sqcm
1	2	4
	<b>Manufacture, Supply, &amp; Delivery of HDPE pipes conforming to IS 4984 - 1995 including transportation to any where in A.P, excluding excise duty, sale tax and specials etc., complete. (supply upto 90 mm dia in coil &amp; above 90 mm dia straight lengths in 6 m.)</b>	
	<b>Rate per Meter</b>	
	OD 20 mm	-
	OD 25 mm	-
	OD 32 mm	-
	OD 40 mm	44
	OD 50 mm	68
	OD 63 mm	93
	OD 75 mm	127
	OD 90 mm	182
	OD 110 mm	271
	OD 125 mm	350
	OD 140 mm	432
	OD 160 mm	565
	OD 180 mm	713
	OD 200 mm	874
	OD 225 mm	1134
	OD 250 mm	1402
	OD 280 mm	1748
	OD 315 mm	2221
	OD 355 mm	2711
	OD 400 mm	3513
	OD 450 mm	4467
	OD 500 mm	5485
	OD 560 mm	6795
	OD 630 mm	8595
	OD 710 mm	10921
	OD 800 mm	13823
	OD 900 mm	17515
	OD 1000 mm	21569

Note: Excise duty, CST / VAT extra as applicable at the time of supply.

The IPCL resin cost adopted for the above rates are

For PE - 80 grade Rs.1,18,720/- per MT. (Excluding CED&ST)

The variation in cost of HDPE pipes due to increase / decrease in raw material cost shall be allowed as per the following price variation formula.

price variation formula as follows:

$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95$  (for increase in raw material cost)

$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95$  (for decrease in raw material cost)

P2 = Revised pipe price in Rs. Per Meter excluding CED & ST

P1 = Existing pipe price in Rs. Per Meter excluding CED & ST

A2 = Revised price of raw material Rs. Per MT excluding CED & ST

A1 = Existing price of raw material Rs. Per MT excluding CED & ST

M = Weight of pipe in Kgs per Meter as per weight chart.

**16(I). S o R FOR H.D.P.E PIPES FOR THE YEAR 2014-15. (PE - 100 Grade)**

Sl. No	Description	6.0 kg/sqcm	8.0 kg/sqcm	10.0 kg/sqcm	12.5 kg/sqcm	16.0 kg/sqcm
1	2	3	4	5	6	7
I	Manufacture, Supply, & Delivery of HDPE Pipes conforming to IS 4984 - 1995 including transportation to any where in A.P, excluding excise duty, sale tax and specials etc., complete. (supply upto 90 mm diain coil & above 90 mm diastraight length in 6 m.)					
	<b>Rate per Meter</b>					
	OD 20 mm					32
	OD 25 mm					48
	OD 32 mm			46	59	78
	OD 40 mm		59	70	89	119
	OD 50 mm	72	90	109	139	186
	OD 63 mm	109	139	168	219	285
	OD 75 mm	155	197	237	312	407
	OD 90 mm	220	281	337	444	592
	OD 110 mm	329	419	500	667	847
	OD 125 mm	421	540	649	855	1085
	OD 140 mm	529	676	813	1076	1376
	OD 160 mm	691	880	1059	1402	1779
	OD 180 mm	870	1114	1341	1770	2238
	OD 200 mm	1075	1376	1653	2191	2773
	OD 225 mm	1386	1773	2134	2765	3492
	OD 250 mm	1705	2190	2634	3413	4321
	OD 280 mm	2137	2742	3292	4288	5432
	OD 315 mm	2709	3472	4175	5408	6874
	OD 355 mm	3403	4354	5245	6878	8768
	OD 400 mm	4473	5718	6873	8906	11288
	OD 450 mm	5565	7144	8597	11260	14165
	OD 500 mm	6884	8809	10606	13905	16656
	OD 560 mm	8060	10324	12359	15750	
	OD 630 mm	10166	13062	15656	18787	
	OD 710 mm	12926	16555	19886		
	OD 800 mm	16404	21016	25313		

	OD 900 mm	<b>20781</b>	<b>26604</b>			
	OD 1000 mm	<b>25626</b>				

Note:-

Excise duty, CST / VAT extra as applicable at the time of supply.

The IPCL resin cost adopted for the above rates are

For PE - 100 grade Rs.1,19,750/- per MT. (Excluding CED&ST)

The variation in cost of HDPE pipes due to increase / decrease in raw material cost shall be allowed as per the following price variation formula.

price variation formula as follows:

$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95$ (for increase in raw material cost)

$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95$ (for decrease in raw material cost)

P2 = Revised pipe price in Rs. Per Meter excluding CED & ST

P1 = Existing pipe price in Rs. Per Meter excluding CED & ST

A2 = Revised price of raw material Rs. Per MT excluding CED & ST

A1 = Existing price of raw material Rs. Per MT excluding CED & ST

M = Weight of pipe in Kgs per Meter as per weight chart.

**16(II)HDPE PIPES –(PE –100 Grade) SEWER LINES FOR THE YEAR 2014-15**

Sl. No	Description	6.0 kg/sqcm	8.0 kg/sqcm	10.0 kg/sqcm	12.5 kg/sqcm	16.0 kg/sqcm
1	2	3	4	5	6	7
I	Manufacture, Supply, & Delivery of HDPE Pipes conforming to IS 14333 - 2000 for using under ground drainage and sewerage systems including transportation to any where in A.P, excluding excise duty, sale tax and specials etc., complete. ( supply upto 90 mm diain coil & above 90 mm diastraight length in 6 m or 12 m.)					
	<b>Rate per Meter</b>					
	OD 63 mm	121	154	184	218	261
	OD 75 mm	171	219	261	311	371
	OD 90 mm	244	312	372	442	535
	OD 110 mm	354	448	534	641	766
	OD 125 mm	452	578	692	821	990
	OD 140 mm	566	721	868	1033	1242
	OD 160 mm	738	941	1131	1303	1618
	OD 180 mm	930	1194	1430	1700	2046
	OD 200 mm	1152	1470	1763	2105	2522
	OD 225 mm	1452	1855	2232	2653	3196
	OD 250 mm	1792	2294	2754	3277	3937
	OD 280 mm	2240	2870	3433	4120	4944
	OD 315 mm	2836	3633	4450	5197	6251
	OD 355 mm	3594	4602	5538	6608	7930
	OD 400 mm	4739	6064	7281	8681	10412
	OD 450 mm	5983	7673	9222	10971	
	OD 500 mm	7394	9459	11373	13558	
	OD 560 mm	9245	11855	14270		
	OD 630 mm	11706	15006	18029		
	OD 710 mm	15134	19386			
	OD 800 mm	19199				
	OD 900 mm	24317				
	OD 1000 mm	30043				



Note:-

Excise duty, CST / VAT extra as applicable at the time of supply.

The IPCL resin cost adopted for the above rates are

For PE - 100 grade Rs.1,19,750/- per MT. (Excluding CED&ST)

The variation in cost of HDPE pipes due to increase / decrease in raw material cost shall be allowed as per the following price variation formula.

price variation formula as follows:

$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95$ (for increase in raw material cost)

$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95$ (for decrease in raw material cost)

P2 = Revised pipe price in Rs. Per Meter excluding CED & ST

P1 = Existing pipe price in Rs. Per Meter excluding CED & ST

A2 = Revised price of raw material Rs. Per MT excluding CED & ST

A1 = Existing price of raw material Rs. Per MT excluding CED & ST

M = Weight of pipe in Kgs per Meter as per weight chart.

**17(I). S o R FOR H.D.P.E FITTINGS FOR THE YEAR 2014-15.**

	<b>Manufacture, Supply, &amp; Delivery of HDPE fittings conforming to IS 4984 - 1995 including transportation to anywhere in A.P. Excluding excise duty, sale tax and specials etc., complete</b>	
<b>I (a)</b>	<b>PIPE ENDS LONG NECK</b>	<b>Rate per Each</b>
	OD 50 mm	<b>90</b>
	OD 63 mm	<b>114</b>
	OD 75 mm	<b>137</b>
	OD 90 mm	<b>177</b>
	OD 110 mm	<b>246</b>
	OD 125 mm	<b>442</b>
	OD 140 mm	<b>447</b>
	OD 160 mm	<b>623</b>
	OD 180 mm	<b>883</b>
	OD 200 mm	<b>1135</b>
	OD 225 mm	<b>1302</b>
	OD 250 mm	<b>1525</b>
	OD 280 mm	<b>1704</b>
	OD 315 mm	<b>1965</b>
	OD 355 mm	<b>4107</b>
	OD 400 mm	<b>5473</b>
	OD 450 mm	<b>9107</b>
	OD 500 mm	<b>10135</b>
<b>(b)</b>	<b>MS FLANGES</b>	<b>Rate per Each</b>
	OD 50 mm	<b>114</b>
	OD 63 mm	<b>144</b>
	OD 75 mm	<b>182</b>
	OD 90 mm	<b>196</b>
	OD 110 mm	<b>206</b>
	OD 125 mm	<b>283</b>
	OD 140 mm	<b>307</b>
	OD 160 mm	<b>403</b>
	OD 180 mm	<b>568</b>
	OD 200 mm	<b>736</b>
	OD 225 mm	<b>920</b>
	OD 250 mm	<b>1086</b>
	OD 280 mm	<b>1232</b>
	OD 315 mm	<b>1449</b>
	OD 355 mm	<b>2454</b>

	OD 400 mm	<b>3044</b>
	OD 450 mm	<b>3974</b>
	OD 500 mm	<b>4550</b>
<b>(c)</b>	<b>END CAPS</b>	<b>Rate per Each</b>
	OD 50 mm	<b>61</b>
	OD 63 mm	<b>74</b>
	OD 75 mm	<b>92</b>
	OD 90 mm	<b>122</b>
	OD 110 mm	<b>140</b>
	OD 125 mm	<b>193</b>
	OD 140 mm	<b>225</b>
	OD 160 mm	<b>345</b>
	OD 180 mm	<b>560</b>
	OD 200 mm	<b>611</b>
	OD 225 mm	<b>637</b>
	OD 250 mm	<b>907</b>
	OD 280 mm	<b>928</b>
	OD 315 mm	<b>1268</b>
	OD 355 mm	<b>1958</b>
	OD 400 mm	<b>3420</b>
	OD 450 mm	<b>5500</b>
	OD 500 mm	<b>10135</b>
<b>(d)</b>	<b>REDUCERS</b>	<b>Rate per Each</b>
	OD 50 mm x 63 mm	<b>85</b>
	OD 63 mm x 75 mm	<b>122</b>
	OD 75 mm x 90 mm	<b>200</b>
	OD 90 mm x 110 mm	<b>277</b>
	OD 110 mm x 125 mm	<b>422</b>
	OD 125 mm x 140 mm	<b>584</b>
	OD 140 mm x 160 mm	<b>815</b>
	OD 160 mm x 180 mm	<b>1129</b>
	OD 180 mm x 200 mm	<b>1458</b>
	OD 200 mm x 225 mm	<b>1790</b>
	OD 225 mm x 250 mm	<b>2440</b>
	OD 250 mm x 280 mm	<b>3467</b>
	OD 280 mm x 315 mm	<b>4901</b>
	OD 315 mm x 355 mm	<b>5621</b>
	OD 355 mm x 400 mm	<b>7932</b>

	OD 400 mm x 450 mm	<b>8228</b>
	OD 450 mm x 500 mm	<b>10550</b>
<b>(e)</b>	<b>TEES</b>	<b>Rate per Each</b>
	OD 50 mm	<b>117</b>
	OD 63 mm	<b>187</b>
	OD 75 mm	<b>225</b>
	OD 90 mm	<b>396</b>
	OD 110 mm	<b>469</b>
	OD 125 mm	<b>706</b>
	OD 140 mm	<b>973</b>
	OD 160 mm	<b>1676</b>
	OD 180 mm	<b>2273</b>
	OD 200 mm	<b>3130</b>
	OD 225 mm	<b>4444</b>
	OD 250 mm	<b>6084</b>
	OD 280 mm	<b>8519</b>
	OD 315 mm	<b>12142</b>
	OD 355 mm	<b>17313</b>
	OD 400 mm	<b>25360</b>
	OD 450 mm	<b>36022</b>
	OD 500 mm	<b>49473</b>
<b>(f)</b>	<b>BENDS</b>	<b>Rate per Each</b>
	OD 50 mm	<b>74</b>
	OD 63 mm	<b>164</b>
	OD 75 mm	<b>213</b>
	OD 90 mm	<b>365</b>
	OD 110 mm	<b>481</b>
	OD 125 mm	<b>710</b>
	OD 140 mm	<b>935</b>
	OD 160 mm	<b>1394</b>
	OD 180 mm	<b>2001</b>
	OD 200 mm	<b>2711</b>
	OD 225 mm	<b>3845</b>
	OD 250 mm	<b>5271</b>
	OD 280 mm	<b>7600</b>
	OD 315 mm	<b>10511</b>
	OD 355 mm	<b>14570</b>
	OD 400 mm	<b>21977</b>

	OD 450 mm	<b>32310</b>
	OD 500 mm	<b>43803</b>
<b>II</b>	<b>Providing and Fixing electro Fusion Ferrule Tapping saddle manufactured from virgin resin of PE-80/PE-100 having blue/black colour using food grade compounded raw material with quality assurance certificate from quality agencies like CIPET etc. For usage in drinking water system and having working pressure of 10 bar. The cost shall include testing of all materials, labour all taxes (central &amp; state), inspection charges, transportation upto site, transit insurance, loading, unloading, stacking, providing and fixing etc. Complete as specified and directed by the Departmental Engineers.</b>	
	<b>SIZE</b>	<b>Rate Each</b>
	<b>(Main pipe outer diameter in mm &amp; Tapping size in Inches)</b>	<b>Rs.</b>
	63x1/2"	<b>837.00</b>
	63 x3/4"	<b>837.00</b>
	63 x1"	<b>837.00</b>
	63 x1/2"	<b>837.00</b>
	75 x1/2"	<b>837.00</b>
	75 x3/4"	<b>837.00</b>
	75 x1	<b>837.00</b>
	90 x1/2"	<b>837.00</b>
	90 x3/4"	<b>837.00</b>
	90 x1"	<b>837.00</b>
	90 x 1 1/4"	<b>1086.00</b>
	90 x 1 1/2"	<b>1086.00</b>
	90 x2"	<b>1086.00</b>
	110x1/2"	<b>837.00</b>
	110 x3/4"	<b>837.00</b>
	110 x1"	<b>837.00</b>
	110 x 1 1/4"	<b>1086.00</b>
	110x1 1/2"	<b>1086.00</b>
	110x2"	<b>1086.00</b>
	160 x1/2"	<b>837.00</b>
	160 x3/4"	<b>837.00</b>
	160 x1"	<b>837.00</b>
	160 x 1 1/4"	<b>1187.00</b>
	160 x 1 1/2"	<b>1187.00</b>
	160 x 2"	<b>1187.00</b>
	200 x 1/2"	<b>1182.00</b>

	200 x 3/4"	<b>1182.00</b>
	200 x 1"	<b>1182.00</b>
	200 x 1 1/4"	<b>1709.00</b>
	200 x 2"	<b>1709.00</b>
	250 x 1/2"	<b>1182</b>
	250 x 3/4"	<b>1182</b>
	250 x 1"	<b>1182</b>
	250 x 1 1/4"	<b>1709</b>
	250 x 1 1/2"	<b>1709</b>
	250 x 2"	<b>1709</b>
	315 x 1/2"	<b>1408</b>
	315 x 3/4"	<b>1408</b>
	315x1"	<b>1408</b>
	315x1 1/4"	<b>1911</b>
	315x1 1/2"	<b>1911</b>
	315x2"	<b>1911</b>

**18. SoR FOR PVC PIPES FOR THE YEAR 2014-15**

Sl. No.	Description	TEST PRESSURE			
		2.5 Kgs/cm <sup>2</sup>	4.0 Kgs/cm <sup>2</sup>	6 Kgs/cm <sup>2</sup>	10 Kgs/cm <sup>2</sup>
1	2	3	4	5	6
1	Manufacture, Supply and Delivery of Unplasticised PVCs Pipes for potable water supplies conforming to IS : 4985/2000 (3 <sup>rd</sup> revision) with bell ends (Socket) as per specification in light Grey/Natural Ivory Grey/ Any other Color (except White) inclusive of transportation to the sub-divisional stores anywhere in AP excluding Excise duty and Sales Tax etc.				
	<b>DIA IN MM</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>
	20				<b>16</b>
	25				<b>23</b>
	32				<b>36</b>
	40			<b>34</b>	<b>56</b>
	50			<b>51</b>	<b>85</b>
	63		<b>57</b>	<b>82</b>	<b>124</b>
	75		<b>83</b>	<b>112</b>	<b>179</b>
	90	<b>75</b>	<b>113</b>	<b>162</b>	<b>252</b>
	110	<b>112</b>	<b>164</b>	<b>234</b>	<b>377</b>
	125	<b>148</b>	<b>214</b>	<b>300</b>	<b>492</b>
	140	<b>180</b>	<b>267</b>	<b>386</b>	<b>610</b>
	160	<b>239</b>	<b>352</b>	<b>499</b>	<b>800</b>
	180	<b>300</b>	<b>449</b>	<b>643</b>	<b>1023</b>
	200	<b>380</b>	<b>546</b>	<b>783</b>	<b>1247</b>
	225	<b>489</b>	<b>728</b>	<b>1052</b>	<b>1673</b>
	250	<b>586</b>	<b>846</b>	<b>1288</b>	<b>2032</b>
	280	<b>753</b>	<b>1106</b>	<b>1626</b>	<b>2570</b>
	315	<b>949</b>	<b>1400</b>	<b>2046</b>	<b>3245</b>
	355		<b>1835</b>	<b>2664</b>	
	400		<b>2314</b>	<b>3389</b>	

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

The resin cost adopted for the above rates is Rs.79,179/- per MT(Basic rate, excluding CED)  
The variation in cost of PVC pipes due to increase / decrease in raw material cost shall be allowed subject to the following price variation formula.

The price variation formula to be adopted is as follows:

$$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95 \text{ (for increase in raw material cost)}$$

$$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95 \text{ (for decrease in raw material cost)}$$

P2 = Revised pipe price in Rs. Per Metre, P1 = Existing pipe price in Rs. Per Metre

A2 = Revised price of raw material Rs. Per MT, A1 = Existing price of raw material Rs. Per MT

M = Weight of pipe in Kgs per Meter as per weight chart.

**19. SoR FOR NON- PRESSURE P.V.C.U PIPES FOR THE YEAR 2014-15**

Code No	Description	
1	2	4
	<b>Manufacture, Supply, &amp; Delivery of unplasticized Non-pressure polyvinyl chloride(PVC-U) pipes of dark (any shade of brown) for use in underground drainage &amp; sewerage system conforming to IS 15328/2003) with solvent cement jointing as per specification inclusive of transportation to the sub-divisional stores any where in A.P, excluding Central Excise Duty, Cess, &amp; VAT etc.,</b>	<b>Proposed Rates 2014-15</b>
	<b>Rate per Meter</b>	<b>Rs.</b>
	<b>Pipe Series (S25)</b>	
	OD 160 mm	<b>298</b>
	OD 200 mm	<b>455</b>
	OD 250mm	<b>705</b>
	OD 315 mm	<b>1112</b>
	<b>Pipe Series (S20)</b>	
	OD 125 mm	<b>232</b>
	OD 160 mm	<b>370</b>
	OD 200 mm	<b>562</b>
	OD 250mm	<b>876</b>
	OD 315 mm	<b>1375</b>
	<b>Pipe Series (S16.5)</b>	
	OD 110 mm	<b>204</b>
	OD 125 mm	<b>275</b>
	OD 160 mm	<b>429</b>
	OD 200 mm	<b>668</b>
	OD 250mm	<b>1035</b>
	OD 315 mm	<b>1634</b>

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

The resin cost adopted for the above rates is Rs.79,179/- per MT (Basic rate, excluding CED)

The variation in cost of PVC pipes due to increase / decrease in raw material cost shall be allowed subject to the following price variation formula.

The price variation formula to be adopted is as follows:

$$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95 \text{ (for increase in raw material cost)}$$

$$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95 \text{ (for decrease in raw material cost)}$$

P2 = Revised pipe price in Rs. Per Metre

P1 = Existing pipe price in Rs. Per Metre

A2 = Revised price of raw material Rs. Per MT

A1 = Existing price of raw material Rs. Per MT

M = Weight of pipe in Kgs per Meter as per weight chart.



**20. SoR FOR NON- PRESSURE P.V.C.U PIPES FOR THE YEAR 2014-15**

<b>Code No</b>	<b>Description</b>	
<b>1</b>	<b>2</b>	<b>4</b>
	<b>Manufacture, supply, &amp; delivery of un-plasticized Non-Pressure Polyvinyl Chloride(PVC-U) pipes of dark (any shade of Brown) for use in underground drainage &amp; sewerage system conforming to IS 15328/2003) with <u>Elastomeric Seal Ring Joints (Ringtite PVC Pipes)</u> as per specification inclusive of transportation to the Sub-Divisional stores any where in A.P, excluding Central Excise Duty, Cess, &amp; VAT etc.,</b>	<b>Proposed Rates 2014-15</b>
	<b>Rate per Meter</b>	<b>Rs.</b>
	<b>Pipe Series (S25)</b>	
	OD 160 mm	<b>319</b>
	OD 200 mm	<b>483</b>
	OD 250mm	<b>752</b>
	OD 315 mm	<b>1183</b>
	<b>Pipe Series (S20)</b>	
	OD 125 mm	<b>249</b>
	OD 160 mm	<b>392</b>
	OD 200 mm	<b>596</b>
	OD 250mm	<b>930</b>
	OD 315 mm	<b>1459</b>
	<b>Pipe Series (S16.5)</b>	
	OD 110 mm	<b>217</b>
	OD 125 mm	<b>292</b>
	OD 160 mm	<b>458</b>
	OD 200 mm	<b>706</b>
	OD 250mm	<b>1097</b>
	OD 315 mm	<b>1732</b>

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

The resin cost adopted for the above rates is Rs.79,179/- per MT (Basic rate, excluding CED)

The variation in cost of PVC pipes due to increase / decrease in raw material cost shall be allowed subject to the following price variation formula.

The price variation formula to be adopted is as follows:

$$P2 = P1 + (A2 - A1) / 1000 \times M \times 0.95 \text{ (for increase in raw material cost)}$$

$$P2 = P1 - (A1 - A2) / 1000 \times M \times 0.95 \text{ (for decrease in raw material cost)}$$

P2 = Revised pipe price in Rs. Per Metre

P1 = Existing pipe price in Rs. Per Metre

A2 = Revised price of raw material Rs. Per MT

A1 = Existing price of raw material Rs. Per MT

M = Weight of pipe in Kgs per Meter as per weight chart.

## 21. SoR FOR CENTRIFUGALLY CAST (SPUN)IRON PRESSURE PIPES

Sl. No.	Description	Unit	S.S. Rates for 2014-15		
			4	5	6
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>I</b>	<b>Socket and Spigot Centrifugally Cast (Spun) Iron pressure pipes for water, Gas and Sewage conforming to specification No: IS 1536/1989 (third revision) with amdt. No: 1 &amp; 2 in standard lengths of 3.66 m, 4 m, 4.5m, 5 m, 5.5 m &amp; 6 m and details given below, suitable either for lead jointing or rubber gasket (push on) jointing at purchasers option at ex-factory excluding transportation, taxes &amp; duties.</b>		<b>LA Class (Rs)</b>	<b>A Class (Rs)</b>	<b>B Class (Rs)</b>
	<b>Nominal dia (in MM)</b>				
	80	Rmt	<b>858</b>	<b>930</b>	<b>1000</b>
	100	Rmt	<b>1045</b>	<b>1147</b>	<b>1226</b>
	125	Rmt	<b>1318</b>	<b>1439</b>	<b>1549</b>
	150	Rmt	<b>1597</b>	<b>1750</b>	<b>1886</b>
	200	Rmt	<b>2332</b>	<b>2530</b>	<b>2739</b>
	250	Rmt	<b>3142</b>	<b>3422</b>	<b>3702</b>
	300	Rmt	<b>4052</b>	<b>4432</b>	<b>4800</b>
	350	Rmt	<b>5181</b>	<b>5621</b>	<b>6097</b>
	400	Rmt	<b>6308</b>	<b>6893</b>	<b>7439</b>
	450	Rmt	<b>7632</b>	<b>8385</b>	<b>9044</b>
	500	Rmt	<b>9024</b>	<b>9830</b>	<b>10635</b>
	600	Rmt	<b>11935</b>	<b>13029</b>	<b>14112</b>
	700	Rmt	<b>15703</b>	<b>17156</b>	<b>18536</b>
	750	Rmt	<b>17588</b>	<b>19230</b>	<b>20860</b>
	800	Rmt	<b>19687</b>	<b>21451</b>	<b>23205</b>
	900	Rmt	<b>23991</b>	<b>29864</b>	<b>28363</b>
	1000	Rmt	<b>28823</b>	<b>31483</b>	<b>34029</b>
<b>II</b>	<b>Conveyance of Centrifugally Cast (Spun) Iron Pressure Pipes and accessories including loading at Factory, un-loading at site and stacking for the following sizes. (The Minimum distance/lead in Km for destination below 100 Km to be taken as 100 Km)</b>		<b>Class</b>		
	<b>SIZE IN MM</b>	<b>UNIT</b>	<b>LA</b>	<b>A</b>	<b>B</b>
	80	Per KM/RMT	<b>0.24</b>	<b>0.24</b>	<b>0.24</b>
	100	Per KM/RMT	<b>0.24</b>	<b>0.24</b>	<b>0.24</b>
	125	Per KM/RMT	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>
	150	Per KM/RMT	<b>0.36</b>	<b>0.36</b>	<b>0.36</b>
	200	Per KM/RMT	<b>0.61</b>	<b>0.61</b>	<b>0.61</b>
	250	Per KM/RMT	<b>0.73</b>	<b>0.73</b>	<b>0.73</b>

300	Per KM/RMT		<b>0.97</b>	<b>1.09</b>	<b>1.09</b>
350	Per KM/RMT		<b>1.33</b>	<b>1.33</b>	<b>1.45</b>
400	Per KM/RMT		<b>1.57</b>	<b>1.57</b>	<b>1.69</b>
450	Per KM/RMT		<b>1.82</b>	<b>1.94</b>	<b>2.06</b>
500	Per KM/RMT		<b>2.18</b>	<b>2.30</b>	<b>2.42</b>
600	Per KM/RMT		<b>2.18</b>	<b>2.30</b>	<b>2.42</b>
700	Per KM/RMT		<b>2.18</b>	<b>2.30</b>	<b>2.42</b>
750	Per KM/RMT		<b>3.63</b>	<b>3.87</b>	<b>4.11</b>
800	Per KM/RMT		<b>6.17</b>	<b>6.17</b>	<b>6.17</b>
900	Per KM/RMT		<b>6.17</b>	<b>6.17</b>	<b>6.17</b>
1000	Per KM/RMT		<b>6.17</b>	<b>6.17</b>	<b>6.17</b>

**Note:**The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

Price Variation Formula due to Increase / Decrease in the cost of pig iron.

$$P2 = P1 + (R2 - R1) / 1000 * M * 1.0$$

Where M= Weight of pipe in kg per metre.

P2 = Revised rate of pipe in Rs. per Rmt.

P1 = Rate of pipe in Rs. per Rmt. as per above table.

R2 = Price of Pig Iron(Rs per MT excluding CED&ST)) at the time of preparation of estimate.

R1 = Price of Pig Iron(Rs per MT excluding CED&ST) at the time of preparation of SSR =Rs. 27,500/-

**22.S o R FOR DUCTILE IRON PRESSURE PIPES FOR THE YEAR2014-15**

Sl. No.	Description	Unit	S.S. Rate for 2014-15	
1	2	3	4	5
1	Centrifugally cast (Spun) Ductile Iron pressure pipes for water, gas and sewage with <u>Socket Spigot ends</u> conforming to IS.: 8329/2000 in standard working lengths of 4, 5 5.5 & 6 meter for classification K9 & K7 suitable for push-on-joint (rubber gasket d jointing) with cement mortar lining inside the pipes with outside zinc coating. Rates are ex-factory, excluding transportation, taxes & duties.			
	<b>Nominal Dia in mm</b>	<b>Rmt</b>	<b>K7</b>	<b>K9</b>
	100	Rmt	911	1085
	150	Rmt	1263	1604
	200	Rmt	1760	2142
	250	Rmt	2359	2811
	300	Rmt	3030	3561
	350	Rmt	3812	4438
	400	Rmt	4625	5350
	450	Rmt	5562	6401
	500	Rmt	6628	7447
	600	Rmt	8818	9822
	700	Rmt	11407	12693
	750	Rmt	12780	14245
	800	Rmt	14126	15719
	900	Rmt	17234	19170
	1000	Rmt	20430	22727
	1100	Rmt		24317
	1200	Rmt		28427
2	Centrifugally cast (Spun) Ductile Iron pressure pipes for water, gas and sewage <u>with plain ends</u> conforming to IS:8329/2000in standard working lengths of 4, 5, 5.5 & 6 meter for classification K9 & K7 with cement mortar lining inside the pipes with outside zinc coating. Rates are ex-factory, excluding transportation, taxes & duties.			
	<b>Nominal Dia in mm</b>		<b>K7</b>	<b>K9</b>
	100	Rmt	778	996
	150	Rmt	1121	1463
	200	Rmt	1590	1987
	250	Rmt	2069	2638
	300	Rmt	2722	3337
	350	Rmt	3417	4146
	400	Rmt	4134	4997
	450	Rmt	4950	5905
	500	Rmt	5891	7048
	600	Rmt	7800	9097
	700	Rmt	10324	11540

	750	Rmt	11546	12930
	800	Rmt	12770	14276
	900	Rmt	15441	17263
	1000	Rmt	18357	20522
	1100	Rmt		21851
	1200	Rmt		25433
3	<b>Centrifugally cast (Spun) Ductile Iron pressure pipes with <u>flanged (welded) ends</u> for water, gas, sewage conforming to IS: 8329/2000 in standard working lengths of 1,2,3, 4, 5 mts for classification K9 with cement mortar lining inside the pipes with outside zinc coating. rates are ex-factory, excluding transportation, taxes &amp; duties.</b>			
	<b>Nominal Dia in mm</b>		<b>1.0 Mt. Length</b>	<b>2.0 Mt. Length</b>
	100	Each	3793	4948
	150	Each	5364	7046
	200	Each	7101	9395
	250	Each	9274	12335
	300	Each	11599	15467
	350	Each	18155	22956
	400	Each	22466	28266
	450	Each	27130	33973
	500	Each	32867	40901
	600	Each	46520	57087
	700	Each	55472	68879
	800	Each	68391	84978
	900	Each	81515	101570
	1000	Each	104604	128444
	1100	Each	121749	147180
			<b>3.0 Mt. Length</b>	<b>4.0 Mt. Length</b>
	100	Each	6101	6696
	150	Each	8729	9718
	200	Each	11693	13189
	250	Each	15397	17427
	300	Each	19329	22001
	350	Each	27760	30498
	400	Each	34067	36936
	450	Each	40814	44108
	500	Each	48936	52716
	600	Each	67653	72168
	700	Each	82289	88385
	800	Each	101560	109183
	900	Each	121626	131056
	1000	Each	152286	162401

	1100	Each	173124	204955
			<b>5.0 Mt. Length</b>	
	100	Each	7825	
	150	Each	11388	
	200	Each	15484	
	250	Each	20484	
	300	Each	25874	
	350	Each	35299	
	400	Each	42730	
	450	Each	50946	
	500	Each	60737	
	600	Each	82710	
	700	Each	101769	
	800	Each	125736	
	900	Each	155476	
	1000	Each	186197	
	1100	Each	220220	
<b>4</b>	<b>Conveyance of Ductile Iron Pressure Pipes and accessories including loading at Factory, un-loading at site and stacking for the following sizes</b>		<b>WELDED DOUBLE FLANGED PIPES</b>	
	<b>SIZE IN MM</b>	<b>UNIT</b>	<b>Class</b>	<b>K9</b>
			<b>K7</b>	<b>K9</b>
	100	Per KM/RMT	0.22	0.33
	150	Per KM/RMT	0.33	0.44
	200	Per KM/RMT	0.33	0.66
	250	Per KM/RMT	0.44	0.88
	300	Per KM/RMT	0.66	1.10
	350	Per KM/RMT	0.77	1.32
	400	Per KM/RMT	0.88	1.54
	450	Per KM/RMT	1.10	1.87
	500	Per KM/RMT	1.32	2.20
	600	Per KM/RMT	1.87	2.86
	700	Per KM/RMT	2.75	4.18
	750	Per KM/RMT	3.30	5.06
	800	Per KM/RMT	5.61	8.36
	900	Per KM/RMT	5.61	8.36
	1000	Per KM/RMT	5.61	8.36
	1100	Per KM/RMT	5.61	-
	1200	Per KM/RMT	6.00	6.00
<b>5</b>	<b>Supply and Delivery of Polyethylene (PE)Sleeves for Ductile Iron Pipes used to guard the pipe against corrosion.</b>			
	<b>DIA IN MM</b>			
	100 MM DIA		RMT	41.00
	150 MM DIA		RMT	50.00

	200 MM DIA		RMT	<b>64.00</b>
	250 MM DIA		RMT	<b>74.00</b>
	300 MM DIA		RMT	<b>81.00</b>
	350 MM DIA		RMT	<b>91.00</b>
	400 MM DIA		RMT	<b>127.00</b>
	450 MM DIA		RMT	<b>127.00</b>
	500 MM DIA		RMT	<b>154.00</b>
	600 MM DIA		RMT	<b>154.00</b>
	700 MM DIA		RMT	<b>200.00</b>
	750 MM DIA		RMT	<b>200.00</b>
	800 MM DIA		RMT	<b>200.00</b>
	900 MM DIA		RMT	<b>227.00</b>
	1000 MM DIA		RMT	<b>227.00</b>
	1100 MM DIA		RMT	<b>227.00</b>
<b>6</b>	<b>Additional price for HAC(high alumina cement motar lining)</b>			
	<b>DIA IN MM</b>			
	100 MM DIA		RMT	<b>55</b>
	150 MM DIA		RMT	<b>73</b>
	200 MM DIA		RMT	<b>89</b>
	250 MM DIA		RMT	<b>106</b>
	300 MM DIA		RMT	<b>114</b>
	350 MM DIA		RMT	<b>130</b>
	400 MM DIA		RMT	<b>178</b>
	450 MM DIA		RMT	<b>178</b>
	500 MM DIA		RMT	<b>220</b>
	600 MM DIA		RMT	<b>220</b>
	700 MM DIA		RMT	<b>282</b>
	750 MM DIA		RMT	<b>282</b>
	800 MM DIA		RMT	<b>282</b>
	900 MM DIA		RMT	<b>322</b>
	1000 MM DIA		RMT	<b>322</b>
	1100 MM DIA		RMT	<b>322</b>
	1200 MM DIA		RMT	<b>322</b>

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

Price Variation Formula due to Increase / Decrease in the cost of pig iron.

$P2 = P1 + (R2 - R1) / 1000 * M * 0.96$ , Where

M = Weight of pipe in kg per metre as per I.S.8329-2000.

P2 = Revised rate of pipe in Rs. per Rmt.

P1 = Rate of pipe in Rs. per Rmt. as per above table.

R2 = Price of Pig Iron(Rs per MT excluding CED&ST) at the time of preparation of estimate.

R1 = Price of Pig Iron(Rs per MT excluding CED&ST) at the time of preparation  
of SoR =Rs.27,500/-

**23. S o R FOR DUCTILE IRON FITTINGS FOR THE YEAR 2014-15**

Sl. No.	Description	Unit	
1	2	3	
	<b>Centrifugally cast (spun) Ductile Iron Fittings conforming to IS:9523/2000 having dimensions as per table. The rates mentioned here under are for fittings, zinc coated externally with inside mortar lining (with finishing as per class 13/IS 9523/2000) ( ex-works) Excluding Transportation, Taxes and Duties etc.</b>		
<b>I</b>	DI double socket branch flange Tee		
	Upto 500 x 500 mm dia	Kg	<b>101.00</b>
	Above 500 x 500 mm dia	Kg	<b>113.00</b>
<b>II</b>	DI All Socket Tees		
	Upto 300 x 300 mm dia	Kg	<b>101.00</b>
	Above 300 x 300 mm dia	Kg	<b>113.00</b>
<b>III</b>	DI Double socket Tapers (Reducer)		
	Upto 500 x 450 mm dia	Kg	<b>101.00</b>
	Above 500 x 450 mm dia	Kg	<b>113.00</b>
<b>IV</b>	DI Flanged Socket		
	Upto 500 mm dia	Kg	<b>101.00</b>
	Above 500 mm dia	Kg	<b>113.00</b>
<b>V</b>	DI Flanged Spigot		
	Upto 500 mm dia	Kg	<b>101.00</b>
	Above 500 mm dia	Kg	<b>113.00</b>
<b>VI</b>	DI Double Socket Duck Foot Bend		
	Upto 300mm dia	Kg	<b>101.00</b>
	Above 300mm dia	Kg	<b>113.00</b>
<b>VII</b>	DI Double Flange Duck/Foot bend		
	Upto 300 mm dia	Kg	<b>101.00</b>
	Above 300 mm dia	Kg	<b>113.00</b>
<b>VIII</b>	DI All socket Cross.		
	Upto 300 x 300 mm dia	Kg	<b>101.00</b>
	Above 300 x 300 mm dia	Kg	<b>113.00</b>
<b>IX</b>	DI All Flange Tee		
	Upto 500 x 500 mm dia	Kg	<b>101.00</b>
	Above 500 x 500 mm dia	Kg	<b>113.00</b>
<b>X</b>	DI All Flange Cross		
	Upto 300 x 300 mm dia	Kg	<b>101.00</b>
	Above 300 x 300 mm dia	Kg	<b>113.00</b>



<b>XI</b>	DI Double Flange Reducer		
	Upto 500 x 450 mm dia	Kg	<b>101.00</b>
	Above 500 x 450 mm dia	Kg	<b>113.00</b>
<b>XII</b>	Blank Flange		
	Upto 500 mm dia	Kg	<b>101.00</b>
	Above 500 mm dia	Kg	<b>113.00</b>
<b>XIII</b>	Mechanical Joints		
	Upto 300 mm dia	Kg	<b>101.00</b>
	Above 300 mm dia	Kg	<b>113.00</b>
<b>XIV</b>	DI Double Socket Bends		
	Upto 500mm dia	Kg	<b>101.00</b>
	Above 500 mm dia	Kg	<b>113.00</b>
<b>XV</b>	DI Double Flanged Bends		
	Upto 500mm dia	Kg	<b>101.00</b>
	Above 500 mm dia	Kg	<b>113.00</b>

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**24. S o R FOR RUBBER GASKETS SUITABLE FOR C.I/ D.I. S/S PIPES**

Sl. No.	Description	Unit	S.S Rates For 2014-15
1	2	3	4
1	<b>Manufacture as per BIS:12820/89 with S.B.R. Quality Rubber confirming to BIS: 5382/85, supply and delivery of Rubber Gaskets suitable for C.I/ D.I S/S pipes anywhere in A.P. F.O.R. Destination departmental stores including cost of material, loading, incidental handling with companies standard packing, transportation, unloading &amp; stacking but excluding central excise duty, sales tax, octroi and other Govt. Levies etc., complete.</b>		
	80mm dia	Each	<b>63</b>
	100mm dia	Each	<b>98</b>
	125mm dia	Each	<b>117</b>
	150mm dia	Each	<b>143</b>
	200mm dia	Each	<b>174</b>
	250mm dia	Each	<b>194</b>
	300mm dia	Each	<b>295</b>
	350mm dia	Each	<b>374</b>
	400mm dia	Each	<b>408</b>
	450mm dia	Each	<b>439</b>
	500mm dia	Each	<b>609</b>
	600mm dia	Each	<b>722</b>
	700mm dia	Each	<b>959</b>
	750mm dia	Each	<b>1065</b>
	800mm dia	Each	<b>1277</b>
	900mm dia	Each	<b>1541</b>
	1000mm dia	Each	<b>1686</b>

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

### 25. S o R FOR CI PIPES AND SPECIALS FOR THE YEAR 2014-15

Sl. No.	Description	Quality or sort	Rate/ Kg including packing, forwarding, Transit risk and delivery any where in A.P. for the year 2014-15. Rs.
1	2	3	4
	<b>Manufacture, Supply and Delivery of Cast Iron Pipes and Fittings (spls.) Conforming to IS. No. 7181/1986, 5531/1988, 3950/1979 and C.I.D Joints confirming to is No.8794/1988 at site of work anywhere in A.P. Including, loading, unloading, transportation to site of work stacking at site transit risk and package, excluding taxes and duties.</b>	I.S. No. 7181/1986 5531/1988 3950/1979 & 8794/1988	<b>73.70</b>

**Foot Note:** The rate of CI pipes, CI Specials and CID Joints etc., which are to be incorporated in the SSR are based on the following raw materials cost.

**Pig Iron:** Rs.27,500/- per M.T.(excluding CED, Tax & Fright)

**Coke :** Rs.36,570/- per M.T. .(Excluding CED, Tax & Fright)

The rates may be revised depending upon the increase/decrease in the cost of raw materials as per the following method. For every increase/decrease of Rs.1000/- in the cost of raw materials or part there of proportionately.

**In respect of Pig Iron:** The increase/decrease in cost of CI Specials per Kg is 3.43%.

**In respect of coke:** The increase/decrease in cost of CI Specials per Kg is 0.67%.

The above price is at site of work , Excise duty, CST/VAT extra as applicable at the time of supply.

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**26. S o R FOR WATER HAMMER CONTROL DEVICES FOR THE YEAR 2014-15**  
(Rate Each in Rs.)

Sl. No.	Description	TEST PRESSURE				Additional charges for Flanged ended valves
		10 Kgs/cm <sup>2</sup>	15 Kgs/cm <sup>2</sup>	20 Kgs/cm <sup>2</sup>	25 Kgs/cm <sup>2</sup>	
1	2	3	4	5	6	7
1	Manufacture, supply and delivery of zero velocity valve/ PSLV with CI body with flanged ends as per AWWA, ex-factory excluding transportation, central excise duty and sale tax etc., complete.					
	<b>DIA IN MM Rate/Each</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>	
	150	70275	82031	86878	95568	
	200	73417	84428	90762	99836	
	250	82835	95259	102404	112645	
	300	93220	107203	115246	126768	
2	Manufacture, Supply and delivery of zero velocity valve/ PSLV with MS Fabricated Body with Plain ends. as per AWWA, Ex-factory excluding transportation, Central Excise duty and sale tax etc. Complete					
	<b>DIA IN MM Rate/ Each</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>
	350	99288	114180	122744	135017	8603
	400	109748	126209	135675	149248	10373
	450	127645	146793	157802	173583	12396
	500	147526	169653	182378	200616	13410
	525/550	158460	180138	198399	218238	17330
	600	177423	204035	219338	241272	24722
	650	198604	218467	248321	268056	27957
	700	231497	254772	289434	312583	33396
	750	256416	282094	320552	346231	37494
	800	312360	359217	386155	424768	42251

	900	371260	426949	450341	504868	51107
	1000	450341	450341	450341	625798	64894
	1050	454844	454844	454844	658915	67491
	1100	573755	650592	709321	780255	75142
	1200	690565	759637	865389	932309	85008
	1400	1035848	1139453	1298084	1398459	119543
	1500	1206940	1327622	1508641	1629199	121934
	1600	1231078	1354172	1538815	1661780	127513
<b>3</b>	<b>Manufacture, Supply and delivery of Air Cushion valves / Quick Released damped Air Valves (QRDA) as per AWWA, Ex-factory excluding transportation, Central Excise duty and sale tax etc., complete.</b>					
	<b>DIA IN MM      Rate/Each</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>	<b>Rs.</b>	
	100	64263	73904	81293	89419	
	150	97659	112308	123538	135892	
	200	104237	119871	131860	145045	
<b>4</b>	<b>Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.</b>	<b>10% on basic cost of valves</b>				

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**27. S o R FOR CAST STEEL VALVES FOR THE YEAR 2014-15.**

Sl.No.	Description	TEST PRESSURES			
1	2	3	4	5	6
1	Manufacture, Supply and Delivery of Cast Carbon Steel rising / Non rising spindle sluice valve design standard as per IS:14846/2000 for Water Supply Scheme with SS Spindle & SS Working parts the grade of Cast Steel for body Bonnet, Dome, Stool Cover, Wedge, Stuffing Box, Gland Thrust Plate, shall be as per IS : 1030 / 1989. (The valve shall be used for High pressure schemes & pumping stations) excluding transportation, Central Excise duty and sale tax etc., complete. ISI Marked	Class-150 Body 425PSI Seat 300 PSI PN-20	Class-300 Body 1100 PSI Seat 750 PSI PN-30	FOR Enclosed Spur Gear Arrangement.	
	Rate/Each			Class 150	Class 300
	DIA IN MM	Rs.	Rs.	Rs.	
	40	5729	11458		
	50	9440	17185		
	65	11814	21482		
	80	14169	25779		
	100	18897	34371		
	125	24235	44065		
	150	28354	51556		
	200	45794	93089	56048	102409
	250	64454	146517	74708	155839
	300	81420	185074	91673	194395
	350	108570	246766	122552	259477
	400	220547	501243	234529	513954
	450	247206	550816	261189	563528
	500	290831	660979	304813	673691
	600	332031	753517	346014	766228
	700	642251		656233	
	750	690723		710298	
	800	799784		819359	
	900	945201		964776	
	1000	1211796		1231370	
	1100	1308739		1328314	
	1200	1478390		1497965	

2	<b>Manufacture, Supply and delivery of Cast Carbon Steel Bolted Cover Non Return Valve as per IS : 5312 / Part1 / 1984. Round body heavy duty material spec. As per IS:1030/1989 with SS Hinge &amp; Seat Rings. excluding transportation, Central Excise duty and sale tax etc., complete. Dia in mm.</b>				
	<b>Rate/Each Rs.</b>	PN-20	PN-30		
	40	5695	10356		
	50	8475	15422		
	65	10591	19279		
	80	12710	23135		
	100	17439	30847		
	125	21813	39660		
	150	23983	43624		
	200	36354	79317		
	250	50896	132196		
	300	72707	165245		
	350	96944	220327		
	400	198735	451669		
	450	222971	506751		
	500	261748	594882		
	600	302948	688519		
3	<b>Manufacture, Supply and delivery of Cast Steel Multi Door Type Non return Valve as per IS; 5312/ Part II / 1984 Heavy duty material spec. as per 1030/1989 with SS hinges &amp; Seat Rings excluding transportation, Central Excise duty and sale tax etc., complete.</b>	PN-20			
		Rate/Each			
	500	440652			
	600	550816			
	700	660979			
	750	815208			
	800	1211796			
	900	1454154			
	1000	1586349			
	1100	1872775			

	1200	1894807			
4	<b>Manufacture, Supply and delivery of Cast Steel D/F Butter fly Valves conforming to IS; 13095/1991 manually heavy duty Gear operation, excluding transportation, Central Excise duty and sale tax etc., complete.</b>				
	<b>DIA IN MM Rate/Each</b>	PN- 1.0/1.6	PN-2.5		
	300	84104	104843		
	350	113138	142171		
	400	135950	176273		
	450	164752	208532		
	500	187795	239639		
	600	218902	281115		
	700	343330	426282		
	750	426282	529972		
	800	467758	581817		
	900	529972	664769		
	1000	841043	1048423		
	1100	1048423	1359493		
	1200	1255803	1359493		
	1300	1682084	1877944		
	1400	1774253	1981634		
	1500	1877944	2085324		
	1600	2189014	2500085		
	1800	2707465	2914845		
	2000	3744366	4055436		
5	<b>Conveyance of valves and accessories including loading at factory and unloading, stacking at site of work.</b>	<b>10% on basic cost of valves</b>			

**Note :** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.



## 28. S o R FOR DI D/F VALVES FOR THE YEAR 2014-15.Rate/Each in Rs.

Sl. No.	Description	TEST PRESSURE			
		PN 10	PN 16		
1	2	3	4	5	6
1	Manufacture, supply and delivery of Single Chamber DI <u>Air Valve</u> with Body and cover in Ductile Iron of grade SG 400/12 or equivalent grade as per I.S.3896-part2-1985 and subsequent revisions. All internal parts such as float, shell etc., all cover bolts, of stainless steel, and Gaskets and seals of EPDM food grade quality Epoxy powder coating (EP-P) inside and outside colour blue. Drilled as per IS:1538.				
	<b>DIA IN MM</b>	<b>PN 10</b>	<b>PN 16</b>	<b>PN 25</b>	
	25 (Screwed End)	9009	9009		
	32 (Screwed End)	17919	17919		
	40 (Screwed End)	18810	18810		
	50	32363	32363	41642	
	80	43175	43175	43175	
	100	50408	50408	57968	
	150	61366	61366	70132	
	200	67210	67210	78168	
	300	108900	108900	119900	
2	Manufacture, Supply and delivery of DI D/F <u>Gate Valves</u> (Soft Seated) Resilient seated soft sealing gate valves (Sluice valves) with body bonnet of ductile cast iron of grade GGG40/ SG 400/12 or equivalent grade as per I.S.3896-part2-1985 and subsequent revisions, wedge fully rubber lined with EPDM food grade quality and seals of NBR and the valves should be of vacuum tight and 100% leak proof with face to face dimensions as per BS5163-89/IS14846-2000/DIN 3202 F 4. All the valves should be with Electrostatic powder coating both inside and outside pocket less body passage. Drilled as per IS:1538.				
	<b>DIA IN MM</b>	<b>PN 10</b>	<b>PN 16</b>	<b>PN 25</b>	
	50	7747	7747	13094	
	80	9922	9922	16144	
	100	13088	13088	18304	
	150	20607	20607	30531	
	200	34244	34244	51495	
	250	47429	47429	76487	

	<b>300</b>	<b>71682</b>	<b>71682</b>	<b>124065</b>	
	<b>350</b>	<b>217030</b>	<b>217030</b>	<b>363053</b>	
	<b>400</b>	<b>227631</b>	<b>227631</b>	<b>369274</b>	
	<b>450 With By-pass &amp; Gear</b>	<b>391622</b>	<b>391622</b>	<b>736134</b>	
	<b>500 With By-pass &amp; Gear</b>	<b>415877</b>	<b>415877</b>	<b>781725</b>	
	<b>600 With By-pass &amp; Gear</b>	<b>535531</b>	<b>535531</b>	<b>1006636</b>	
<b>3</b>	<b>Manufacture, Supply and delivery of DI D/F Butterfly Valves with GGG40/SG 400/12 or Equivalent grade as per I.S.3896-part 2-1985 and subsequent revisions, Double eccentrically Disc., with renewable soft seal on the disc and Body seat face of stainless steel / nickel weld overlay, with powder or liquid Epoxy coating with minimum thickness of 250 microns applied on both body and disc inside and outside. Face to face dimensions as per AWWA C 504 or BS 5155 or IS:13095. Drilled as per IS: 1538/ISO</b>				
	<b>DIA IN MM</b>	<b><u>PN 10</u></b>	<b><u>PN 16</u></b>	<b><u>PN 25</u></b>	<b><u>PN 40</u></b>
	<b>150</b>	<b>82590</b>	<b>82590</b>	<b>85256</b>	<b>113188</b>
	<b>200</b>	<b>89954</b>	<b>92874</b>	<b>109124</b>	<b>137629</b>
	<b>250</b>	<b>104808</b>	<b>107855</b>	<b>126328</b>	<b>192858</b>
	<b>300</b>	<b>125059</b>	<b>128741</b>	<b>143595</b>	<b>202507</b>
	<b>350</b>	<b>143087</b>	<b>156102</b>	<b>181811</b>	<b>220409</b>
	<b>400</b>	<b>180221</b>	<b>204182</b>	<b>237727</b>	<b>336972</b>
	<b>450</b>	<b>197850</b>	<b>219588</b>	<b>279661</b>	
	<b>500</b>	<b>199731</b>	<b>235759</b>	<b>374904</b>	<b>416406</b>
	<b>600</b>	<b>261775</b>	<b>369600</b>	<b>435149</b>	<b>456271</b>
	<b>700</b>	<b>516789</b>	<b>545294</b>	<b>819554</b>	
	<b>800</b>	<b>560262</b>	<b>583871</b>	<b>1196170</b>	
	<b>900</b>	<b>732712</b>	<b>732712</b>		
	<b>1000</b>	<b>918489</b>	<b>918489</b>	<b>1734523</b>	
	<b>1100</b>	<b>1056263</b>			
	<b>1200</b>	<b>1230671</b>	<b>1230671</b>	<b>1937679</b>	
	<b>1400</b>	<b>2644951</b>	<b>2644951</b>		
	<b>1600</b>	<b>3153860</b>	<b>3153860</b>		
	<b>1800</b>	<b>3868391</b>	<b>3868391</b>		
	<b>2000</b>	<b>6608212</b>	<b>6608212</b>		
	<b>2200</b>	<b>9540251</b>	<b>9540251</b>		

4	Manufacture, Supply and delivery of <b>DI D/F Swing Check Valves Slanted/Straight seated with metallic, corrosion proof and wear resistant seat faces resilient seat, Body and Disc of ductile cast iron GGG 40/SG Iron 420/12 or equivalent grade as per IS 3896(part2)-1985 and subsequent revisions. All the inside and outside of the body is to be coated with double coating of epoxy liquid. Drilled as per IS:1538. Specification and Dimensions as per I.S 5312 or equivalent codes.</b>				
	<b>DIA IN MM</b>	<b><u>PN 10</u></b>	<b><u>PN 16</u></b>	<b><u>PN 25</u></b>	<b><u>PN 40</u></b>
	<b>100</b>	<b>32726</b>	<b>36362</b>		
	<b>150</b>	<b>54954</b>	<b>61060</b>		
	<b>200</b>	<b>83337</b>	<b>88295</b>	<b>129492</b>	<b>169494</b>
	<b>250</b>	<b>91714</b>	<b>97269</b>	<b>157270</b>	<b>198726</b>
	<b>300</b>	<b>114962</b>	<b>121800</b>	<b>191459</b>	<b>242572</b>
	<b>350</b>	<b>135304</b>	<b>143424</b>	<b>217786</b>	<b>264795</b>
	<b>400</b>	<b>164364</b>	<b>174194</b>	<b>220520</b>	<b>286762</b>
	<b>500</b>	<b>208982</b>	<b>221634</b>	<b>279496</b>	<b>367792</b>
	<b>600</b>	<b>313546</b>	<b>332395</b>	<b>412024</b>	<b>532563</b>
	<b>700</b>	<b>452569</b>	<b>493551</b>	<b>603279</b>	<b>765019</b>
	<b>800</b>	<b>565875</b>	<b>616721</b>	<b>760709</b>	<b>963725</b>
5	Manufacture, supply and delivery of <b>DI (Ductile Iron) Wafer Butterfly valves conforming to IS 13095-1991. With hand lever below 150 mm, with Worm gear for 200 mm and above excluding transportation, CED and taxes etc, completed</b>				
	<b>DIA IN MM</b>	<b><u>PN 10</u></b>	<b><u>PN 16</u></b>		
	<b>40</b>	<b>5610</b>	<b>5610</b>		
	<b>50</b>	<b>5610</b>	<b>5610</b>		
	<b>65</b>	<b>6071</b>	<b>6071</b>		
	<b>80</b>	<b>6620</b>	<b>7255</b>		
	<b>100</b>	<b>9307</b>	<b>9648</b>		
	<b>125</b>	<b>11696</b>	<b>11696</b>		
	<b>150</b>	<b>15795</b>	<b>16137</b>		
	<b>200</b>	<b>21430</b>	<b>21430</b>		
	<b>250</b>	<b>28518</b>	<b>28518</b>		
	<b>300</b>	<b>40127</b>	<b>40127</b>		
	<b>350</b>	<b>48695</b>	<b>52824</b>		

6	Manufacture and supply of “Air Release – Vacuum Break – Surge Alleviation” Valve for potable water. Construction material Cylindrical Body of Ductile Iron GGG-50/SG-500-7, Three cylindrical Floats of High Density Poly Ethylene. Baffle Plate, Orifice venture and all construction bolts of stainless steel, coating internally and externally. Electrostatically applied epoxy (1) Flange connection as per IS 1538, (2) Female (BSP/NTP Threaded for sizes 25 mm				
	<b>DIA IN MM</b>	<b><u>PN 10</u></b>	<b><u>PN 16</u></b>	<b><u>PN 25</u></b>	
	25 mm dia	14814	-	-	
	50 mm dia	-	47740	47740	
	80 mm dia	-	74896	74896	
	100 mm dia	-	82583	82583	
	150 mm dia	-	169358	169358	
	200 mm dia	-	254354	254354	
7	Manufacturer and supply of Metal Seated Gate Valve Non- Rising Stem with by-pass & gear operated, for water and sewage applications& dimensions confirming to IS 14846-2000. Material construction Body, Bonnet, Wedge and Distance Piece of ductile iron GGG-50/SG500/7 DIN1693 or equivalent. Body seat, Wedge seat and Stem nut of Aluminum Bronze BS EN 1982 CC331G/equivalent, Stem of Stainless steel BS EN 100881.4057 or equivalent. 'O' Seal Body/Cover is of EPDM food grade Quality. Fastners is of Steel Sheraplex coated to BS 3692 Gr 8.8 or equivalent. Body and Bonnet internally and externally blue two pack epoxy to WIS 4-52-01 Class B. Leakage tested for seat 1.1 PN and body 1.5 x PN. Flange connection as per IS 1538				
	<b>DIA IN MM</b>	<b><u>PN 10</u></b>	<b><u>PN 16</u></b>		
	DN700	1372190	1372190		
	DN800	1734934	1734934		
	DN 900	1961180	1961180		
	DN 1000	2197338	2197338		
	DN 1100	3403190	3403190		
	DN 1200	2994069	2994069		

NOTE:-All the prices are ex-go down /ex-factory. Excise duty and CST /Local Tax Extra as applicable at the time of supply. Packaging and Transportation extra at 5% on basic cost. The duties and taxes as applicable may be added as per rules at the time of preparation of estimate. The grade of DI & conformation to specifications shall be certified by a third party Quality Control Agency approved by indenting authority at the cost of supplier.

**29. S o R FOR SFRC MAN-HOLE FRAME WITH COVERS FOR THE YEAR 2014-15**

Sl.No.	Description	Unit	S o R for 2013-14.
1	2	3	4
<b>I</b>	<b>Manufacture as per BIS:12592 (Part 1&amp;2) Supply &amp; Delivery of manhole covers and frames with ISI marking anywhere in A.P., F.O.R. destination including, loading, unloading &amp; stacking at site but excluding central excise duty, sales tax, octroi and other Govt levies etc., as applicable.</b> <b><u>I.S.I Mark</u></b>		Rs.
<b>a)</b>	M.D. -10 with 500mm diaclear opening	Each	<b>1543</b>
<b>b)</b>	H.D.-20 with 500mm diaclear opening	Each	<b>1989</b>
<b>C)</b>	H.D.-10with 560mmdia clear opening(New item)	Each	<b>1560</b>
<b>d)</b>	H.D.-20 with 560mm diaclear opening	Each	<b>2133</b>
<b>e)</b>	H.D.-35 with 560mm diaclear opening.	Each	<b>2286</b>
<b>f)</b>	24x24 MD 10	Each	<b>1682</b>
<b>g)</b>	24x18 MD 10	Each	<b>1548</b>
<b>h)</b>	24x24 HD 20	Each	<b>1890</b>
<b>i)</b>	24x18 HD 20	Each	<b>1927</b>
<b>j)</b>	Deviders 0.9 mtr.	Each	<b>3957</b>
<b>II</b>	<b>Manufacture as per company's standard specification supply and delivery of encapsulated plastic steps for man holes anywhere in A.P. including cost of materials packing as per company's standards, loading, transportation, unloading and stacking at site of work etc, complete but excluding taxes such as sales tax, C.E.D and others etc., as applicable.</b>	Each	<b>166</b>

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

**30. S o R FOR CI and M.S. DISMANTLING JOINTS FOR THE YEAR 2014-15**

<b>Sl.No.</b>	<b>Description</b>	<b>Unit</b>	<b>2014-15.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>1</b>	<b>Manufacture, Supply and Delivery of C.I Dismantling Joints with both side flange end suitable for installation in between flange end pipes. These rates are excluding Excise duty, Taxes and transportation charges etc., complete.</b>		<b>Rs.</b>
	<b>Nominal Dia. In MM</b>		
	50	Each	<b>4387</b>
	80	Each	<b>4802</b>
	100	Each	<b>6301</b>
	125	Each	<b>8102</b>
	150	Each	<b>8888</b>
	200	Each	<b>12604</b>
	250	Each	<b>15004</b>
	300	Each	<b>24008</b>
<b>2</b>	<b>Manufacture, Supply and Delivery of M.S. Dismantling Joints with both side flange end suitable for installation in between flange end pipes. Thickness as per IS: 7322. These rates are excluding Excise duty, Taxes and transportation charges etc., complete</b>	Each	
	<b>Nominal Dia. In MM</b>		
	350		<b>56938</b>
	400		<b>65245</b>
	450		<b>70786</b>
	500		<b>84723</b>
	600		<b>98586</b>
	700		<b>109677</b>
	750		<b>112452</b>
	800		<b>134633</b>
	900		<b>140459</b>
	1000		<b>168248</b>
	1100		<b>182138</b>
	1200		<b>209924</b>
	1300		<b>237707</b>
	1400		<b>266032</b>
	1600		<b>293872</b>
	1800		<b>348005</b>
	2000		<b>433076</b>
<b>3</b>	<b>Conveyance of joints and accessories including loading at factory and unloading, stacking at site of work.</b>		5% on basic cost
<b>Note:</b>	The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.		

**31. OTHER ITEMS FOR THE YEAR 2014-15**

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>S.S. Rates for 2014-15.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>1</b>	<b>SUPPLY AND DELIVERY OF PIG LEAD 99.99 % PURE INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.</b>	Per Kg	<b>319</b>
<b>2</b>	<b>SUPPLY AND DELIVERY OF LEAD WOOL BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.</b>	Per Kg	<b>168</b>
<b>3</b>	<b>SUPPLY AND DELIVERY OF SPUN YARN OF BEST QUALITY INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.</b>	Per Kg	<b>128</b>
<b>4</b>	<b>SUPPLY AND DELIVERY OF RUBBER PACKING INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE.</b>		
	a) 3 mm thick	Per Kg	<b>103</b>
	b) 6 mm thick	Per Kg	<b>103</b>
<b>5</b>	<b>SUPPLY AND DELIVERY OF BOLTS AND NUTS WITH DOUBLE WASHERS INCLUDING TAXES AND CONVEYANCE ETC., COMPLETE. (1/2" TO 1")</b>	Per Kg	<b>123</b>

**32. S o R FOR RUBBER RINGS SUITABLE FOR  
SWG PIPES FOR THE YEAR 201-15**

Sl. No.	Description	Unit	S.S Rates For 2014-15
1	2	3	4
1	<b>Manufacture Supply of Rubber Rings made with EPDM Rubber Rings (seals according to EN681 AND ASTM 425) suitable for SWG pipes confirming to IS No.651/1992 any where in A.P , For including cost of materials, loading, unloading , handling with company standard packing , transportation, unloading and stacking but excluding central excise duty and other taxes etc complete. The Rubber Rings shall be tested at the factory premises confirming to I.S No.651/1992</b>		
	100 mm dia	Each	<b>53</b>
	150 mm dia	Each	<b>80</b>
	200 mm dia	Each	<b>120</b>
	230 mm dia	Each	<b>146</b>
	250 mm dia	Each	<b>186</b>
	300 mm dia	Each	<b>213</b>
	350 mm dia	Each	<b>253</b>

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.



**33. S o R FOR TRENCH LESS TECHNOLOGY WITH PIPE JACKING METHOD  
FOR THE YEAR 2014-15**

Sl. No.	Description	Unit	S.S Rates For 2014-15
1	2	3	4
1	<b>Railway crossing/Road crossing/Canal crossing by adopting trenchless technology tunneling work through specialized pipe jacking method by erecting the equipment to true to the alignment and gradient, by hydraulic pipe jacking technique complete including tunneling, excavation in all types of soils including hard rock and construction of RCC chambers suitable to casing pipe pits, and conveyance charges of machinery and other required materials but excluding cost of encasing pipe, in co-ordination with the concerned authorities as per approved drawings and directed by the Engineer-in – Charge.</b>		
	800 mm dia	Rmt	<b>26000</b>
	900 mm dia	Rmt	<b>27300</b>
	1000 mm dia	Rmt	<b>28600</b>
	1100 mm dia	Rmt	<b>29900</b>
	1200 mm dia	Rmt	<b>31200</b>
	1300 mm dia	Rmt	<b>32500</b>
	1400mm dia	Rmt	<b>35100</b>
	1500 mm dia	Rmt	<b>39000</b>

**Note:** The duties and taxes as applicable shall be added as per rules at the time of preparation of estimate.

# **LATEST G.O. ON SEIGNORGE CHARGES**

Copy of

**GOVERNMENT OF ANDHRA PRADESH  
ABSTRACT**

Mines and Minerals - Amendments to Rule 10 of the Andhra Pradesh Minor Mineral  
Concession Rules, 1966 - Orders - Issued.

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**INDUSTRIES AND COMMERCE (M.I) DEPARTMENT**

G.O.Ms.No.198.

Dated:13.08.2009

Read the following:

1. G.O.Ms.No.217, Industries & Commerce (M-I) Dept., dated 29-09-2004.
2. From the Director of Mines & Geology, File No.25395/MR/ 2007, Dated:29.9.2007.
3. G.O.Ms.No.104, Ind. & Com. (M.I) Department, dt.15.5.2009.

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**ORDER :**

The following notification will be published in the Extra-Ordinary issue of the Andhra Pradesh Gazette dated 13.8.2009.

2. This order shall come into force with immediate effect.

**NOTIFICATION**

In exercise of the powers conferred by sub-section (1) of section 15 of the Mines and Minerals (Development & Regulation) Act,1957 (Central Act 67 of 1957), the Governor of Andhra Pradesh hereby makes the following amendments to the Andhra Pradesh Minor Mineral Concession Rules, 1966 issued in G.O.Ms.No.1172, Industries and Commerce(M-I) Department, dated 04-09-1967 and subsequently amended from time to time.

**AMENDMENTS**

In the said rules, Under Rule 10 for Schedules I and II the following shall be substituted, namely :

**“SCHEDULE -I  
RATES OF SEIGNIORAGE FEE**

Sl.No.	Name of the Minor Mineral	Unit	Rate of Seigniorage Fee (in Rupees)
1	2	3	4
1	Building Stone	M <sup>3</sup> /MT	Rs.50/33 (Rupees Fifty /Thirty Three)
2	Rough Stone/Boulders	M <sup>3</sup> /MT	Rs. 50/33 (Rupees Fifty /Thirty Three)
3	Road Metal & Ballast	M <sup>3</sup> /MT	Rs. 50/33 (Rupees Fifty /Thirty Three)

3(a)	Dimensional Stone used for Kerbs & Cubes	MT	Rs.88/- (Rupees Eighty Eight)
4	Limekankar / Limestone	MT	The rate of Royalty as applicable to limestone (other than L.D. Grade) in respect of Major Mineral as per the 2nd Schedule of the Mines and Minerals (D&R) Act, 1957.
5	Lime Shell	MT	Rs.88/- (Rupees Eighty Eight)
6	Marble	M <sup>3</sup> /MT	Rs. 165/66 (Rupees One hundred and Sixty Five/Sixty Six)
7	Mosaic Chips	MT	Rs. 44/- (Rupees Forty Four)
8	Muram/Gravel & Ordinary earth	M <sup>3</sup> /MT	Rs. 22/14 (Rupees Twenty Two/ Fourteen)
9	Ordinary sand/Sand manufactured from Boulders useful for Civil construction	M <sup>3</sup>	Rs. 40/- (Rupees Forty)
10	Shingle	M <sup>3</sup>	Rs. 17/- (Rupees Seventeen)
11	Chalcedony Pebbles	MT	Rs. 33/- ( Rupees Thirty Three)
12	Fullers Earth/Bentonite	MT	Rs. 110/- (Rupees One hundred and Ten) and Rs.44/- (Rupees Forty Four)
13	Shale/Slate	MT	Rs. 110/- (Rupees Hundred and Ten )
14	Rehmati	MT	Rs. 17/- (Rupees Seventeen )
15	Limestone slabs		
a(i)	Colour	-	Rs. 7/- (Rupees Seven) per Sq. Mt. or Rs. 88/- (Rupees Eighty Eight) per MT whichever is higher
(ii)	White	-	Rs. 5/- (Rupees Five) per Sq. Mt. or Rs. 55/- (Rupees Fifty Five) per MT. whichever is higher
(iii)	Black	-	Rs. 4/- (Rupees Four) per Sq. Mt. or Rs. 44/- (Rupees Forty Four) per Mt. whichever is higher
16	Ordinary clay, Silt and Brick Earth used in the manufacture of Bricks including Mangalore tiles	--	Rs. 3850/- (Rupees three thousand eight hundred and fifty only) per kiln per annum for Bricks and Tiles

### 17. Granite Useful for Cutting:

**(Rates in Cubic Metre)**

	Item	Super Gang Saw above 300 CMX 180 CM. Size	Mini Gang Saw above 270 Cm X 150 Cm. & less than 300 Cm X 180 Cm Size	Below 270 Cm. X 150 Cm. size	Below 75 Cm. Size
<b>(a)</b>	Black Granite Galaxy Variety	Rs. 3300/- (Rupees Three Thousand Three hundred)	Rs. 2625/- (Rupees Two thousand Six hundred and twenty five only)	Rs. 2475/- (Rupees Two thousand Four hundred and Seventy Five only)	Rs. 1100/- (Rupees One thousand One hundred only)
<b>(b)</b>	Black Granite other than Galaxy Variety	Rs. 2475/- (Rupees Two thousand Four hundred and Seventy Five only)	Rs.2000/- (Rupees Two thousand only)	Rs.1,925/- (Rupees One thousand Nine hundred and Twenty Five only)	Rs.825/- (Rupees Eight hundred and Twenty Five only)
<b>(c)</b>	Colour Granite Srikakulam Blue, Indian aurora of Nizamabad Dist., Leptinites of Coastal Dists., Black pearl of Praksam and Guntur Dists.	Rs. 2475/- (Rupees Two thousand Four hundred and Seventy Five only)	Rs.2000/- (Rupees Two thousand only)	Rs.1925/- (Rupees One thousand Nine hundred and Twenty Five only)	Rs.825/- (Rupees Eight hundred and Twenty Five only)
<b>(d)</b>	Colour Granite of other varieties	RS.1,925/- (Rupees One thousand Nine hundred and Twenty Five only)	Rs. 1625/- (Rupees One thousand Six hundred and Twenty five only)	Rs.1650/- (Rupees One thousand Six hundred Fifty only)	Rs.825/- ( Rupees Eight hundred and Twenty Five only)

**SCHEDULE –II  
RATE OF DEAD RENT  
(PER HECTARE PER ANNUM)**

Sl. No.	Name of the Minor Mineral	Rate of Dead Rent per hectare per Annum
<b>01</b>	Black Granite	Rs.55,000/- (Rupees fifty five thousand only)
<b>02</b>	Colour Granite	Rs.44,000/- (Rupees forty four thousand only)
<b>03</b>	Limestone other than classified as Major Minerals used for Lime burning for building construction purposes, Marble, Boulders, Building Stone Including Stone used for Road Metal, Ballast Concrete and other Construction purposes, Shale, Slate and Phyllites, Mosaic Chips, Fuller's Earth/Bentonite & Dimensional Stones used for cubes & kerbs,	Rs.27,500/- (Rupees twenty seven thousand and five hundred only)
<b>04</b>	Gravel, Morrums, Shingle, Limestone Slabs used for Flooring purposes Limekankar, Chalcedony pebbles used in the building purposes Limeshell for burning used for building purposes and Rehmatti.	Rs.16,500/- (Rupees sixteen thousand and five hundred only)

- NOTE:-**1) The above rates are liable to be revised and amended from time to time by the State Government by notification in the Andhra Pradesh Gazette.  
2) In case of revision, the revised rates as fixed by Mines and Geology Department have to be adopted.